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

Important Warranty Information Regarding Television Format Viewing

See the warranty card for more information on warranty

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.

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 Cente

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 Time > Clock

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

ENTER button. The Time Viewing screen appears.

Antenna Channel Repeat

♦ Move ♦ Adjust ☐ Enter 与 Return Page 1

number keypad on your remote.

press the ENTER 🗗 button.

function to use Time Viewing.

To schedule a channel, follow these steps

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



ransportation to and from the Service Center is the responsibility of the purchaser. Conditions covered are limited only to manufacturing in normal use of the product, Excluded, but not limited to, are any originally specified provisions for, in-home or on-site services, minimum or maximum repair times, exchanges or replacements, accessories, options, upgrades, or consumables. For the location of a SAMSUNG Authorized Service Center, please call toll-free:

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

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

	Contact SAMSUNG WORLDWIDE
i	If you have any questions or comments relating to Samsung products,
	please contact the SAMSUNG customer care center.
i	

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 0766
Customer Care Center 🖀	1-800-SAMSUNG(726-7864)	
Web Site	www.samsung.com/ca (English) www.samsung.com/ca_fr (French)	www.samsung.com

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

Add to Favorite/Delete from Favorite COST: Lets you add If you select Everyday or Every Week, the date you select in the Date field becomes the start date for your channels to and delete channels from your Favorites list. scheduled viewing. For Everyday, the TV will turn on To add channels to the Favorites list, follow these steps: every day, at the time you selected, starting from that 1. Select one or more channels in the All Channels list using the date. For Everyweek, the TV will turn on every week, ▲/▼ buttons and the Yellow Select button on your remote. on the same day of the week as the start date you 2. Press the TOOLS button on your remote. The Tools menu selected, at the time you selected, from that day on, If

- 3. Select Add to Favorite in the Tools menu, and then press the 5. Press the ENTER button on your remote when done. ENTER 🗗 button.
 - Only Added Channels can be scheduled
 - Scheduled programs and channels are displayed in the Programmed List.
 - When you select a digital channel, press the ▶ button to view the digital program list. If you highlight a program in the list, and then press the ENTER (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.
 - You can only select Deselect All when one or more
 - Channel Name Edit: Analog channels only. Lets you assign a ame of up to five characters to an analog channel. For example, Hist, Food, Golf, etc. This makes it easier to find and select a

Mauto Program: See Auto Program under Memorizing Channels 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. Yo 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垣

■ Change Info: Change the scheduling information for a show or channel vou have scheduled.

To change the information, 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 change, and then press the TOOLS button. The Tools Menu appears.
- 3. Select Change Info, and then press the ENTER 🗗 button. The Time Viewing screen appears.
- 4. Use the **◄/▶** buttons to move from entry field to entry field and the ▲/▼ buttons to change the entries. Where numbers are displayed, you can also enter numbers directly using the number keypad on your remote.
- 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** 🗗 button.

The On Screen Menus

Your TV has two kinds of menus, the Main menu and the various Fools 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 ending on the screen you are viewing. A Tools menu symbo (👼) in the lower right side of the screen indicates that a Tools menu 🔳 Color Space (Auto / Native): Auto automatically matches the is available.

The Main menu has seven primary categories:

 Picture Input Application Sound

 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. 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 T\ in the Source List.

The Menu options are presented below, arranged by Main menu categories. A Tools button symbol (TOOLS,7) next to an option name indicates the option is also available in one of the Tools

Picture Menu

Mode Tools, ₽

- Entertain and Standard.
- Standard: Suitable for a normal
- watching movies in a darkened roon
- Entertain: Sharpens the picture. Suitable for games. Only available when the TV is connected to a PC.

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

- Backlight: Adjusts the brightness of the screen by adjusting the brightness of the individual pixels.
- Contrast: Increases or decreases the contrast between dark and light areas of the picture. ■ Brightness: Adjusts the brightness of the screen. Not as
- effective as Backlight.
- 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

Advanced Settings ailable in **Standard** and **Movie** mode only.

Compared to previous models, new Samsung TVs offer a more precise picture with more precise controls. When your TV is connected to a PC, you can only make

- changes to Gamma and White Balance.
- range of colors available to create pictures to the color range of the video source. Native provides a color range wider than the color range of the video source.
- 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,
- areen, blue) darkne R-Gain / G-Gain / B-Gain: Adjusts each color's (red, green, blue) brightness
- Reset: Resets the White Balance to it's default settings ■ Gamma: Adjusts the primary color intensity
- Dynamic Contrast (Off / Low / Medium / High): Adjusts the ■ Black Tone (Off / Dark / Darker / Darkest): Selects the black
- level to adjust the screen depth. Darker settings make blacks look darker.
- 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 brightness of the room. In bright light, the screen brightens. In im light, the screen dims.

Available in Standard mode only.

- **Picture Options** When the TV is connected to a PC, you can only make changes to the Color Tone, Size and HDMI Black Level.
- Color Tone (Cool / Standard / Warm1 / Warm2): Cool makes the picture bluer (cooler). Warm 1 and Warm 2 make the picture redder (warmer)
- Warm1 and Warm2 are deactivated when the picture mode is set to Dynamic
- Size: Set the size and aspect ratio of the picture on the screen Your cable box or satellite receiver may have its own set of screen sizes as well. However, we highly recommend you use the TVs 16:9 mode most of the time.
- 16:9: Sets the picture to the 16:9 wide screen format. Zoom1: Provides moderate magnification of the picture. Sides, top, and bottom are cut off.
- Zoom2: Provides larger magnification of the picture, Sides, top. Wide Fit: Enlarges the aspect ratio of the picture so the picture
- fits the entire screen 4:3: Sets the picture to the old, 4:3 format and puts black or gray
- Do not watch your TV in the 4:3 format for a long time. Traces of borders displayed on the left, right and center of the screen may cause image retention (screen burn) which is not covered by the warranty
- Screen Fit: Displays the full image without any cut-off when your TV is inputting HDMI (720p / 1080i / 1080p) or Component 1080i / 1080p) HD signals.
- HD (High Definition) has a 16:9 aspect ratio and 1080i/1080p 920x1080) or 720p (1280x720) resolution.
- Nou can adjust and store settings for each external device you have connected to an input on the TV. Picture Sizes available
- by Input Source are listed below:

To set the clock, follow these steps

ENTER 🗗 again. If you selected Auto

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

- 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
- S DST and Time Zone function are only available when

If you selected Manual:

The Clock Set screen appears. Use the ▲/▼ buttons to change the values in each field or use the number buttons to enter the values directly. Use the **◄/▶** buttons to move from field to field. When done with all the fields, press ENTER Available only when Clock Mode is set to Manual

Sleep Timer 100197 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.

ist set the clock first.

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 ◄/▶ buttons to move from field to field. Use the ▲/▼ buttons to change the values in each field. To activate the timer with he setting you have chosen, set the Activate/Inactivate field to Activate.

- Contents: To select what will be turned on when the timer setting is activated. You can set the TV to turn on a specific channel or play back contents such as photo or audio files.
- Use the **◄/▶** buttons to move to 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.
- connected to your TV before you can select USB.
- Channel: If you have selected TV, select the desired channel. - Music/Photo: If you have selected USB follow these steps to select a folder containing MP3 (Music) or JPEG (Photo) files on
- The maximum displayed number of files, including sub folders, in one folder of USB storage device is 2000. device lower than USB 2.0.
- 1. Use the </ >
 ✓/ buttons to move to the field under Music or the field under Photo, and then press the ENTER button. The TV displays a single folder (the Root folder) and the type or name of the device.

Multi-Track Sound (MTS) 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 Mono: Select for channels that are broadcasting in mono or if options until the TV displays the best picture. Stereo: Select for channels that are broadcasting in stereo

Picture Size

16:9, Zoom1, Zoom2,

16:9. Wide Fit, 4:3.

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

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

- Available only in **HDMI** mode (RGB signals). Film Mode (Off / Auto): Sets the TV to automatically sense and
- process film signals from all sources and adjusts the picture for optimum quality. 🖎 Available in ATV, DTV (interlace), AV, COMPONENT (480i /
- 1080i) and HDMI (480i / 1080i).
- Matter Auto Motion Plus (Off / Clear / Standard / Smooth / Custom Demo): Enhances motion in fast moving scenes The info screen on your TV displays the resolution and frequency of the incoming video signal (60Hz). This displayed frequency is not what the TV is displaying by
- LED Motion Plus (Off / On): Removes drag from fast scenes with a lot of movement to provide a clear picture.

Input Source

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

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

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

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

using the Auto Motion Plus function.

Sound Menu

Mode Tools

- Standard: Selects the normal sound mode. Music: Emphasizes music over voices.
- Movie: Provides the best sound for movies. Clear Voice: Emphasizes voices over other sounds
- Amplify: Increase the intensity of high-frequency sounds to allow 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** (Bandwidtle 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 peakers. TruSurround delivers a compelling, virtual surround sound experience through any two-speaker playback system ncluding internal television speakers. It is fully compatible with all multichannel formats.

If there are no folders on your device, press the

Use the ▲/▼ buttons to highlight a folder that contains

want to activate the timer by using the ◀/▶ buttons to highlight

the day, and then pressing the ENTER 🗗 button. To unselect a

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 button

Preferred Language

you are having difficulty receiving a stereo signal.

Depending on the program being broadcast, you can listen to

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

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

When you first set up your TV using Plug & Play, the TV

your cable system and added them to the Channel List. The

Ántenna and Auto program functions described below let you

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

Selecting the signal source using the Antenna function also

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

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

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

nemorized the channels that were available over the air or through

run the channel memorization function without having to re-rur

the sound output when the modulation signal is low.

usually a foreign-language translation.

Mono, Stereo or SAP.

Channel Menu

the Plug & Play procedure.

■ Memorizing Channels

Antenna (Air / Cable) TOOLS:

broadcast.

Auto Volume

he Auto Program function memorizes all channels that are Digital-TV broadcasts can transmit many audio tracks

available over the air or through your cable system and adds them to the Channel List. nultaneously (for example, simultaneous translations of a program into foreign languages).

Auto Program

To start Auto Program, follow these steps: You can only select a language from among the ones being 1. Push MENU □ → Channel → Auto Program → ENTER → on

your remote. The Antenna Source screen appears.

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

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

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

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

- 3. On the Cable Type screen, use the ◄/▶/▲/▼ buttons to select the type of digital and analog cable systems you have: STD. HRC or IRC. Most systems are STD (Standard). When done, select Start, and then press ENTER . The TV will start memorizing
- Channel memorization can take up to 45 minutes, depending on your cable system
- Memorized channels are added to the Added Channels list. These are the channels you will see when you use the Channel buttons on your remote.

Clear Scrambled Channel

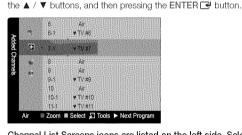
This function filters out scrambled channels after Auto Program is completed. This process may take up to 20~30 minutes.

Press the ENTER button to stop the Clear Scrambled Channel.

This function is only available in Cable mode.

■ Managing Channels

Channel List See your list of Added channels, Favorite channels, or channel vou've scheduled for viewing. Add or delete Favorite channels, add or delete channels from the Added Channels list, schedule channels or programs for viewing. Watch a channel by selecting the channel in the All Channels, Added Channels, or Favorite screen, pressing



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

those you deleted from the Added Channels Added Channels: Shows all Added Channels. These are the

- channels that appear when you press the CH button.

Mark All Channels: Shows all currently available channels including

- Favorite: Shows all favorite channels.
- Programmed: Shows all channels and programs currently
 - scheduled using Timer Viewing.
- Remote control buttons active on the Channel List screen
- * Green (Zoom): Enlarges or shrinks a channel number. Yellow (Select): Move the cursor to a channel. Press the Yellow button to select the channel. A \checkmark mark appears. Repeat to select additional channels. Then, open the Tools menu and apply a
- function to the channels you selected. • 🞜 (Tools): Displays the Channel List Tools menu. (The Tools nus may differ depending on the situation.)

Display Icons Used in the Channel List Screens

	ICONS	l wearing
	✓	A selected channel.
	*	A Favorite channel.
	<u> </u>	A reserved program.
	ď	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 then press the TOOLS button. Madd / Delete: Delete a channel from or add a channel to the

Added Channels list To delete channels from the Added Channels list, follow these steps:

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

2. Press the TOOLS button on your remote. The Tools menu appears. 3. Select **Delete** in the Tools menu, and then press the **ENTER**

. Select one or more channels in the All Channels list using the ▲/▼ buttons and the Yellow Select button on your remote 2. Press the TOOLS button on your remote. The Tools menu

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

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

The PIN input screen appears before the setup screen

PIN option.

Software Upgrade

HD Connection Guide

Contact Samsung

Иedia Play

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

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

nware from samsung.com to a USB memory device.

You add channels back to the Added Channels list on the

Background Color: Options include Default, White, Black, Red. | Reset: Reset all settings to the factory defaults

Foreground Opacity: This adjusts the opacity of text. Options include Default, Transparent, Translucent, Solid and Flashing,

Program Rating Lock The Program Rating Lock feature lets you block programs you've determined are inappropriate for your children based or the program's ratings. To access the Program Rating Lock feature and make any changes, you must enter a PIN (personal

- **Component** mode The default PIN number of a new TV set is "0-0-0-0". You can set your own PIN using the Change PIN function.

How It Works

- ENTER key again. Depending on what type of programs or movies you want to block, select one of the options on the screen, and then press the ENTER 🗗 button. The options are listed below
- 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
- Downloadable U.S. Rating: Parental restriction information can be used while watching DTV channels.

/ L: Adult Language / D: Sexually Suggestive Dialog. To lock/block movies or shows with certain ratings and/or kinds of

the following sequence, which resets the pin to "0-0-0-0"

Game Mode (On/Off) When you connect a game console such as a PlayStation $\ ^{\text{\tiny TM}}$

- 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 Same Mode is not available when the input source is set to

Caption

digital channels.

(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

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

Font Style: Options include Default and Styles 0 to 7. The Foreground 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

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

Melody

The Melody does not play: When no sound is output from the TV because the MUTE

. When the TV is turned off by the 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 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) : 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.

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

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

being received. Disabled when the PC is in power saving mode. ■ Auto Power Off (Off / On): The TV will be automatically turned off when no user operation is received for 4 hours.

Support Menu

Self Diagnosis ■ Picture Test: Use to check for picture problems. If the problem appears in the test picture, select Yes and follow the directions

problems. If the problem occurs during the test, select Yes and follow the directions on the screen. Signal Strength: (Digital channels only) An HD channel's reception quality is either perfect or the channels are unavailable.

Adjust your antenna to increase signal strength.

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

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



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

Press the ◀ or ▶ button to select an icon (Videos, Music, Photos, Settings), and then press the ENTER button.

multimedia files. Need-to-Know List before using Media Play (USB)

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

o 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

Media Play might not work properly with unlicensed

• 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 Thumb drives and Flash Card Readers. Devices should be connected directly to the TV's USB

to select the folder. 4. Press the RETURN button. The Timer screen re-appears. ■ Repeat: Select Once, Everyday, Mon~Fri, Mon~Sat, Sat~Sun or Manual. If you select Manual, you can select the days you

appears.

Other Features

press either the ENTER or RETURN button.

day, highlight it, and then press the ENTER 🗗 button.

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

identification number). To watch a blocked program, you must also enter the same PIN. Program Rating Lock is not available in HDMI or

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

- 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
- 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.

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

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.

Change PIN screen disappears, press the OK button. The TV If you forget the PIN, press the remote-control buttons in

POWER (off) \rightarrow MUTE \rightarrow 8 \rightarrow 2 \rightarrow 4 \rightarrow POWER (on)

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

The Caption feature does not work in Component or HDMI mode.

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.)

depending on the broadcast. Size: Options include Default, Small, Standard and Large, The

Service1~6 may not be available in digital caption mode

Green, Blue, Yellow, Magenta and Cyan. You can change the color of the letters. The default is White

Background Opacity: This adjusts the opacity of the caption background. Options include Default, Transparent, Translucent, Solid and Flashing. Return to Default: This option sets each Size, Font Styl Foreground Color, Background Color, Foreground Opacity and Background Opacity to its default.

when you want to upgrade the software. You can find information egarding our call centers and how to download products and Lets you control whether a melody plays when the TV is turned on

Enjoy photos, music and/or movie files saved on a · When no sound is output from the TV because the volume USB Mass Storage Class (MSC) device.

□ Connecting a USB Device Connect a USB device containing photo, music, and/or movie



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

port. USB HDD is not supported.

Select your preferred picture mode. When your TV is connected to a PC, you can only select

Dynamic: Brightens the screen. Suitable for a bright room.

Movie: Darkens the screen, making it less glary. Suitable for

Sharpness: Sharpens or dulls the edges of objects. borders on the right and left of the picture.

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

button. The Tools Menu appears.

channels in the channel list.

you press the ACHV button.

entry you want information for, and then press the TOOLS

3. Select Information, and then press the ENTER - 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 button to close the Information screen.

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

Select All / Deselect All: You can select or deselect all

□ Other Channel Menu Functions Channel Mode (Added Channels/Favorite

Fine Tune Analog channels only.

If the reception is clear, you do not have to fine tune the channel,

operation. If the signal is weak or distorted, fine tune the channel

Fine tuned channels that have been saved are marked with

on the right-hand side of the channel number

as this is done automatically during the search and store

Select the channel, and then select Fine Tune.

in the channel banner. To reset fine-tuning, select the channel, select Fine Tune, and then select Reset on the Fine Tune screen.

manually.

Setup Menu Plug & Play

□ Setting the Time

instructions, see your Quick Start Guide.

Language Set the menu language

Lets you re-run the Plug & Play initial setup procedure. For

Choose between English, Español, and Français.

The time you set will appear when you press the INFO

If you disconnect the power cord, you have to set the

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

. Select Setup >Time > Clock

DST adjustment. Select Auto if you want the TV to adjust to DST automatically. Press ENTER when done. the Clock Mode is set to Auto.

Timer 1 / Timer 2 / Timer 3

■ Volume: Set the desired loudness

- TV/USB: Select TV or USB. The USB device must be - Antenna: Displays the current antenna source, Air or Cable.

2. Press the ENTER 🗗 button. A list of folders on the device Locking/Blocking Programs or Movies

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 ratings. / FV: Fantasy violence / V: Violence / S: Sexual situation

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.

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

or Xbox™ to your TV, you can enjoy a more realistic gaming experience by turning on the Game Mode function.

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

not responsible for any data file damage or data loss. · A USB device that requires high power (more than 0.5A) may not

 Do not disconnect the USB device while it is loading. · The higher the resolution of the image, the longer it takes to

lay on the screen • If a file is corrupted or the TV does not support the file type, the "Not Supported File Format" message appe The TV cannot play MP3 files with DRM that have been

oaded from a for-pay site. Digital Rights Managemen (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

 PTP devices are not supported. · If an over-power warning message is displayed while you are connecting or using a USB device, the device may not be ecognized 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

USB device or may not be able to read the files on the device. If a USB device connected to the TV is not recognized, the list of files on the device is corrupted, or a file in the list is not played. connect the USB device to a PC, format the device, and check

the connection. If a file you deleted from the PC is still found when you run Media Play, use the "Empty the Recycle Bin" function on the PC to permanently delete the file.

Photos only supports the sequential ipeg format.

 The Videos option does not support the scene search and thumbnail functions. · If the number of files and folders saved on a USB storage device is

over approximately 4000, the files and folders may not appear and some folders may not open.

 The maximum displayed number of files, including sub folders, in one folder of USB storage device is 2000. • The media may not be playing smoothly when using the device

lower than USB 2.0.

Stand Assembly

Poor Picture

Cannot find a channel

The picture is distorted: macroblock

error, small block, dots, pixelization.

The TV will not turn or

The TV turns off automatically

There is no picture/video

RF (Cable/Antenna) Connection

The TV is not receiving all channels.



1. In the Media Play menu, press the ◀ or ▶ button to select Videos, and then press the ENTER - button.

2. Press the </▶/▲/▼ buttons to select a video in the file list.

3. Press the ENTER → button or ▶ (Play) button. The file name is displayed on the top of the screen with the

playing time. - If video time information is unknown, playing time and the

progress bar are not displayed.

During video playback, you can search using the ◀ and buttons. 🖎 In this mode, you can play movie clips contained in a game,

but you cannot play the game itself

Supported Subtitle Formats

MKV

MKV

MKV

920x1080

1920x1080 6~30

1920x1080 6-30

1920x1080 6~30

640x480 6~30

920×1080 6~30

1920x1080 6~30

6~30

6~30

6~30

6~30

6~30

6~30

.sub or .txt

Format

Picture Format

Text Format

Text Format

Text Format

30Mbps

30Mbps

SubRip

SubViewer

Micro DVD

Name

SubStation Alpha

SubRip

/IPEG4 SP / ASP

MJPEG

4.x /5.1 / 6.0

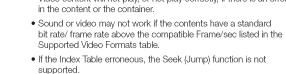
// ASP

MPEG2

MPEG2

Supported Video Formats

Video content will not play, or not play correctly, if there is an erro



exceeds 10Mbps. Video content can not be played if there are many contents in

one file. Video Decoder Supports up to H.264, Level 4.1

H.264 FMO / ASO / RS, VC1 SP / MP / AP L4 and AVCHD are not supported.

MPEG4 SP, ASP - Below 1280 x 720: 60 frame max

- Above 1280 x 720: 30 frame max

H.263 is not supported.

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



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

During music playback, you can search using the ◀ and (REW) and ► (FF) buttons do not function during

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

No Caption on digital channels.

Others

the volume.

error, small block, dots, pixelization.

The remote control does not work

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

You have intermittent loss of audio or

closely at the edge of the frame of

🖎 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.)

In the Media Play menu, press the ◀ or ▶ button to selec Photos, then press the ENTER 🗗 button

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

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

During the slide show, files are displayed in order.

You can move to other files using ◀ or ▶ button. Media Play can play Music files automatically during a Slide

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

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

• 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

2. Repeat Step 1 to select multiple files

NOTE

Deselect All, and then the ENTER - button

then press the ENTER 🗗 button.

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

◄/►/▲/▼ buttons to highlight a folder 2. Press the TOOLS button, select Play Folder, and then press the

• Re-run Plug & Play or run Auto Program. (go to MENU - Channel - Auto Program) First, perform the Picture Test and to see if your TV is displaying the test image properly. Go to MENU - Support - Self Diagnosis - Picture Test If the test image is properly displayed, the poor picture may be caused by the source or signal.

• If you have any trouble assembling the stand, refer to "Install the Stand" in the Start Up or Stand Installation Guide.

The TV image does not look as good as • 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

Many HD channels broadcast up scaled SD (Standard Definition) content. The picture quality of up Adjust the Cable/Set top box video output resolution to 1080i or 720p.

· Compression of video contents may cause picture distortion, especially on fast moving pictures such as those in sports and action movies. A weak signal can cause picture distortion. This is not a TV problem

Adjust the Energy Saving option in the TV menu. (go to MENU - Setup - Eco Solution - Energy Saving)

· Mobile phones used close to the TV (within 3.3ft) may cause noise in the picture on analog and digital channels, 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 Adjust the Picture options in the TV menu, (go to Picture Mode / Color / Brightness / Sharpness) There is poor color or brightness.

• Try resetting the picture to the default picture settings. (go to MENU - Picture - Picture Reset) If the picture size is set to Screen Fit, change it to 16:9. There is a dotted line on the edge of · Change the cable/satellite box resolution. 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

If connected to a cable box, please try to reset it. (Reconnect the AC cord and wait until the cable box reboots. It When changing channels, the picture freezes or is distorted or delayed. may take up to 20 minutes) • 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. Sound Problems

(go to MENU - Support - Self Diagnosis - Sound Test) 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 • Check the volume of the device (Cable/Sat Box, DVD, Blu-ray, etc.) connected to your TV. • If you are using an external device, check the device's audio output option Ex. you may need to change your The picture is good, but there is no cable box's audio option to HDMI if the box is connected to your TV using an HDMI cable. · Reboot the connected device by reconnecting the device's power cable.

The speakers are making an . Check the cable connections. Make sure a video cable is not connected to an audio input. · For Antenna or Cable connections, check the signal information. A weak signal may cause sound distortion. · Perform the Sound Test as explained above. No Picture, No Video

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

· Make sure the wall outlet is working. . 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 • 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

. Check the cable connections. (Remove and reconnect all cables connected to the TV and external devices) 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. · Make sure your connected devices are powered on.

. Be sure to select the correct input source by pressing the SOURCE button on the remote control. Reboot the connected device by reconnecting the device's power cable.

• 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)

- 13 -

. Make sure the coaxial cable is connected securely.

· Verify the antenna is positioned correctly.

Other Restrictions

Photos

. The menu may take longer to appear if the video's bit rate

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

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

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

Show if Background Music is set to On.

Supported Photo Formats

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

Other Restrictions

button on your remote

* 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

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

■ Playing a video/music/photo folder

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

. 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

Store Demo mode to Home Use mode using the Plug & Play procedure. Press the SOURCE button to select

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

ENTER → button.

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

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

Purple/green rolling horizontal bars and • Remove the left and right audio connections from the set-top-box. If the buzzing stops, this indicates that the set-

· 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

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 on the TV menu is greyed out. • You cannot select Caption in the TV menu when watching content from a device connected via HDMI or

. 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
• 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

Your settings are lost after 30 minutes or | • If TV is in the Store Demo mode, it will reset audio and picture settings every 30 minutes. Please change from

🗞 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

→ 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.

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

You see small particles when you look

• This is part of the product's design and is not a defect.

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

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

resolution settings in this manual.

Some channels may not have caption data.

buzzing noise from the TV speakers with top-box has a grounding issue. Replace the Component video cables with an HDMI connection

sports and action movies

Installing the Wall Mount Kit The wall mount kit (sold separately) allows you to mount the TV on the wall.

For detailed information about installing the wall mount, see the instructions provided with the wall mount items. Contact a technician for assistance when installing the wall mount bracket. Samsung Electronics is not responsible for any damage to the

product or injury to yourself or others if you elect to install the wall

Media Play - Additional Functions

■ Videos/Music/Photos Play Option menus

When playing a file, press the TOOLS button.

Repeat Mode You can play movie and music files repeatedly.

Picture Mode You can adjust the picture settin

Auto Motion You can enhance motion in fast

noving scenes.

Sound Mode You can adjust the sound setting.

u can play the video with otitles. This function only v

You can select the digital audio output format.

ou can change the audio anguage if the video has more

ou can start or stop a Slide

You can select the slide show

You can zoom into images in full

ou can rotate images in full

DivX® Video On Demand: Shows the registration code

authorized for the TV. If you connect to the DivX web site and

egister with the 10-digit registration code, you can download

the VOD activation file. Once you play it using Media Play, the

See For more information on DivX® VOD, visit "http://vod.divx

Information: Select to view information about the connected

han one language.

Title

Picture Size

Language

Stop Slide

Start Slide

Slide Show

Rotate

Settings

USB device

nount on your ow

Using the Setup Menu

registration is completed.

Other Information

ou can select another video file play directly.

You can adjust the picture size to

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 earest dealer. If you install the TV on a ceiling or slanted wall, it may fall and result in severe personal injury.

Videos Music Photo

· 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 pr

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

• Do not use screws that do not comply with the VESA standard

For wall mounts that do not comply with the VESA standard

depending on the wall mount specifications. Do not fasten the screws too firmly. This may damage the product or cause the product to fall, leading to personal injury

Samsung is not liable for these kinds of accidents. Samsung is not liable for product damage or personal injury

when a non-VESA or non-specified wall mount is used or the consumer fails to follow the product installation instructions. • Do not mount the TV at more than a 15 degree tilt.

. Always have two people mount the TV on a wall. Product TV size in VESA screw hole specs Standard Quantity

Family	inches	(A * B) in millimeters	Screw	Occidencity.
	19~22	75 X 75	M4	
LED-TV	26	100 X 100		
LED-IV	32~40	200 X 200	M6	4
	46~60	400 X 400	M8	
		△ Do not install yo	our Wall Mour	it Kit while

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,

your TV is turned on. It may result in

ersonal injury due to electric shock.

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. We strongly recommend you drive the screws into a stud.

2. Using screws, insert the screws through the TV brackets, and then fasten the screws to the top VESA screw holes on the back of the TV. 3. Connect the brackets on the TV and the brackets on the wall

with a strong string or cable, and then tie the string or cable tiahtly to the brackets. Verify all connections are properly secured. Periodically check ne 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.

agent.

To purcase a TV Holder kit, contact Samsung customer care

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.



SIS@

License

Do not spray water directly onto the product. Any liquid that goes into the product may cause a failure, fire, or electric shock

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TheaterSound, SRS and the @ symbol are

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.

Clean the product with a soft cloth

dampened with in a small amount of

water. Do not use a flammable liquid

(e.g. benzene, thinners) or a cleaning



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

ABOUT DIVX VIDEO: DivX® is a digital video format created by DivX, LLC, a subsidiary of Rovi Corporation, This is an official DivX Certified® device that plays DivX video. Visit divx. com for more information and software tools to convert your files into DivX videos. 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 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



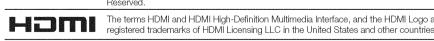
DOLBY.

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

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- 15 -

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

Kensington Lock

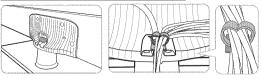
he Kensington Lock is not supplied by Samsung. It is a device used to physically fix the system when using it in a public place. Refer to the manual provided with the Kensington Lock for additional

information on proper use. See Please find a "\(\overline{ slot is beside the "₽" icon.

Possible Solution

The position and color may differ depending on the model.

Assembling the Wire Holder stand



Display Modes (HDMI/DVI Input)

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.

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 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.
	$\bullet \ Sleep Timer : User Menu \to Setup \to Time \to Sleep Timer$
	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
	$ \bullet \ \text{Auto Power Off : User Menu} \to \text{Setup} \to \text{Eco Solution} \to \text{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.

Specifications Environmental Consideration Operating Temperature 50°F to 104°F (10°C to 40°C)

Operating Humidity 10% to 80%, non-condensing -4°F to 113°F (-20°C to 45°C) Storage Temperature Storage Humidity 5% to 95%, non-condensing UN60EH6003 Model Name Display Resolution 1920 x 1080 60" Class (Diagonal)

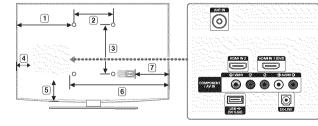
Body With stand

Output

Dimensions(W x H x D)

50.7 lbs (23.0 kg) Without Stand With Stand 59.9 lbs (27.2 kg)

This device is a Class B digital apparatus. 🛸 For information about power supply, and more about power consumption, refer to the label attached to the



(Unit: inches)

NOTE: All drawings are not necessarily to scale. Some dimensions are subject to change without prior notice. Refer to the dimensions

(60.0" measured diagonally

10W x 2

54.1 X 22.2 X 3.7 inches

(1375.6 X 565.1 X 94.4 (mm)

54.1 X 33.9 X 12.9 inches (1375.6 X 862.5 X 329.7(mm))

Design and specifications are subject to change without prior notice.

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

™ Typical power consumption is measured according to Energy Star Program requirements for Televisions.

Solispose unwanted electronics through an approved recycler. To find the nearest recycling location, go to our

■ JACK PANEL DETAIL / REAR VIEW

prior to performing installation of your TV. Not responsible for typographical or printed errors. © 2012 Samsung Electronics America, Inc