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

Important Warranty Information Regarding Television Format Viewing

See the warranty card for more information on warranty

screen width to height) are primarily designed to view wide screen. format full-motion video. The images displayed on them should rimarily 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, lewing 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 purchaser. Conditions covered are limited only to manufacturing defects in material or workmanship, and only those encountered in normal use of the product. Excluded, but not limited to, are any originally specified provisions for, in-home or on-site services, minimum or maximum repair times exchanges or replacements For the location of a SAMSUNG Authorized Service Center, please

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

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 mage 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.

minimum may speed up the burn-in process.

- 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
- Frequently use all TV features designed to reduce image retention and screen burn-in. Refer to proper user manual section for

Center 🕿 support (English) www.samsung.com/ca_fr/ support

support (French)

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changes to Backlight, Contrast, Brightness, and

☐ Other Channel Menu Functions

Channel Mode (Added Channels/Favorite

Lets you select the channel list displayed when you press the

^CH∨ (Channel) button on your remote. For example, if you

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 a selected number of frequently used menu options that change depending on the screen you are viewing.

 Picture Input Sound Application

The Main menu has seven primary categories

 Channel Support

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

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

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

Picture Menu

Mode Tools₁

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

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

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

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

being played.

When the TV is connected to a PC, you can only make changes to the Color Tone, Size and HDMI Black Level

- Color Tone (Cool / Standard / Warm): Cool makes the picture bluer (cooler). Warm make the picture redder (warmer) ■ 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 creen sizes as well. However, we highly recommend you use the TVs 16:9 mode most of the time The menu is deactivated, when the H. 264 (1080p) DTV is

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, d bottom are cut off.

Wide Fit: Enlarges the aspect ratio of the picture so the picture 4:3: Sets the nicture to the old. 4:3 format and puts black or gray

borders on the right and left of the picture. Do not watch your TV in the 4:3 format for a long time. Traces of borders displayed on the left, right and center of the screen may cause image retention (screen burn) which s 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) HĎ signals.

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

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

Input Source	Picture Size
ATV, AV, Component (480i, 480p)	16:9, Zoom1, Zoom2, 4:3
DTV (1080i), Component (1080i, 1080p), HDMI	16:9, Wide Fit,
(720p, 1080i, 1080p)	4:3, Screen Fit
■ Digital Clean View (Off / Low / Medium / F	ligh / Auto) : If the
broadcast signal received by your TV is weak, you can activate	

- the Digital Clean View feature to reduce any static and ghosting that may appear on the screen. When the signal is weak, try all the Digital Clean View options until the TV displays the best picture.
- HDMI Black Level (Normal / Low) : For HDMI signals, select the black level to adjust the screen depth. Low make blacks look
- 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). ■ Motion Lighting (Off / On): Reduce power consumption by
- brightness control adapted motion. Available in Standard mode only

Picture Reset

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

Sound Menu

Mode TOOLS ء

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

Equalizer

- Available in Standard sound mode only. ■ Balance L/R: Adjusts the balance between the right and left
- 100Hz / 300Hz / 1KHz / 3KHz / 10KHz (Bandwidth Adjustment): Adjusts the loudness of specific bandwidth
- Reset: Resets the equalizer to its default settings.

DTS TruSurround

Available in Standard sound mode only.

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

Preferred Language

Digital channels only. Digital-TV broadcasts 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

Multi-Track Sound (MTS)

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

Auto Volume

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

SPDIF Output

The SPDIF (Sony Philips Digital InterFace) outputs an uncompressed digital audio signal when you connect the digital audio jack on the back of the TV to a digital audio in jack on a receiver or home theater.

■ Audio Format (PCM/Dolby Digital): You can select the Digital Audio output (SPDIF) format. The available Digital Audio output format may differ depending on the input source.

By connecting the TV to a receiver or home theater with Dolby Digital and 5.1ch speakers and selecting Dolby Digital, you can maximize your interactive 3D sound

■ Audio Delay: Lets you correct timing mismatches between the audio track and the video when you are watching the TV and istening to digital audio output from the TV through an external device such as an AV receiver. When you select Audio Delay, a slider appears. Use the left and right arrow buttons to adjust the slider. Press ENTER when done (0ms ~ 250ms).

Speaker Select

A sound echo may occur due to a difference in decoding speed between the main speaker and the audio receiver. In this case, set the TV to External Speaker.

- When Speaker Select is set to External Speaker, the volume and MUTE buttons will not operate and the sound settings will be limited.
- When Speaker Select is set to External Speaker.
- TV Speaker: Off, External Speaker: On When Speaker Select is set to TV Speaker.
- TV Speaker: On, External Speaker: On If there is no video signal, both speakers will be mute.

Visual Impaired

Digital channels only Adds verbal description to the main audio to help the visually

Sound Reset

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

Channel Menu

■ Memorizing Channels

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

Before your television can memorize the available channels, you nust 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 determines the signal source the TV is tuned to. For example, f you receive your TV signal over the air, and you select Cable, you will see only snow. You must select Air to see a

Auto Program

The Auto Program function memorizes all channels that are vailable over the air or through your cable system and adds them to the Channel List.

- To start Auto Program, follow these steps: 1. Push MENU Ⅲ → Channel → Auto Program → ENTER 🗗
- on your remote. The Antenna Source screen appears. 2. On the Antenna Source screen, select the source of your TV

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

Clear Scrambled Channel

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

Press the ENTER button to stop the Clear Scrambled

This function is only available in Cable mode.

■ Managing Channels

Channel List

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

♥ TV #9 ■ Zoom ■ Select 🞜 Tools

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

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

- Shows all currently available channels including those you deleted from the Added Channels list.
- ♣ Added Channels: Shows all Added Channels. These are the channels that appear when you press the CH LIST button.

- **⑤** 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.

Display Icons Used in the Channel List Screens

Icons	Meaning	
✓	A selected channel.	
•	A Favorite channel.	
©	A reserved program.	
ă	A program currently being broadcast.	

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.

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
- To add channels to the **Added Channels** list, follow these steps: 1. 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
- 3. Select Add in the Tools menu, and then press the ENTER
- All deleted channels will be shown on the All Channels list
- A gray-colored channel indicates the channel has been
- deleted from the Added Channels list. The Add menu option only appears for deleted channels.
- To add channels to the **Favorites** list, follow these steps:
- 1. 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
- ENTER button.

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

the Original Limited Warranty Statement and a dated Bill of Sale

as Proof of Purchase must be presented to the Service Center.

- 1. Select one or more channels in the **Favorite** Channels list using the ▲/▼ buttons and the Yellow Select button on your
- 3. Select **Delete from Favorite** in the Tools menu, and then press the ENTER button

- function to use Time Viewing. To schedule a channel, follow these steps:
- 2. Press the TOOLS button on your remote. The Tools menu

Antenna Channel Repeat DTV Air 6-1 Once

◆ Move ♦ Adjust 🗗 Enter 🤊 Retur 4. Use the **◄/▶** buttons to move from entry field to entry field

number keypad on your remote. If you select Everyday or Every Week, the date you select in the Date field becomes the start date for your scheduled viewing. For Everyday, the TV will turn on every day, at the time you selected, starting from that date. For **Everyweek**, the TV will turn on every week. on the same day of the week as the start date you

and time you selected

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

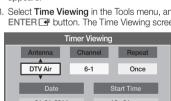
Programmed List.

you set **Timer Viewing** for that program directly. ■ Channel Name Edit: Analog channels only. Lets you assign a

■ Deselect All: Deselect all the selected displayed channels.

channel. You must set the current time first in the Time > Clock

1. Select a channel in the Added Channels list using the ▲/▼ buttons and the Yellow Select button on your remot



When you select a digital channel, press the ▶ button to ■ Select All / Deselect All: You can select or deselect all channels

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

■ Timer Viewing: You can schedule a channel to be displayed automatically at a set time, even when you are watching another

have scheduled for viewing using the Time Viewing function. You can view, modify, or delete a show you have scheduled using the 2. Press the TOOLS button on your remote. The Tools menu functions on the **Programmed** List screen Tools menu.

■ Change Info: Change the scheduling information for a show or channel you 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.

Programmed List (on the Channel List Screen)

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

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 4 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

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

3. Select Cancel Schedules, and then press the ENTER button. The Cancel Schedule screen appears. 4. Select **OK**, and then press the ENTER → button.

■ Information: Display the information for a show or channel you have scheduled. You can also change the schedule Information. . Select the **Programmed** List icon on the left side of the Channel List screen, and then press the ENTER → button.

2. On the **Programmed** List screen, select the show or channel

3. Select Information, and then press the ENTER → button.

4. Select Change Info and press the ENTER button to

change information, or select Close and press the ENTER

The **Time Viewing** Information screen appears.

button to close the Information screen.

in the channel list.

entry you want information for, and then press the TOOLS outton. The Tools menu appears.

of the TV.

Language

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

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

To set the clock, follow these steps:

clock again.

2. Press ENTER and select Auto or Manual, and then press ENTER (₹ again. If you selected Auto:

digital channel. - Select $\mbox{\bf Time Zone},$ and then press the $\mbox{\bf ENTER}\, \mbox{\bf $ \mbox{\bf B}$}$ button. Use the ▲/▼ buttons to select your **Time Zone**, and then press ENTER .

ST and Time Zone function are only available when the Clock Mode is set to Auto.

to DST automatically. Press ENTER when done.

If you selected Manual:

enter the values directly. Use the </ >
✓/► buttons to move from field to field. When done with all the fields, press ENTER 4. Available only when Clock Mode is set to Manual.

change the values in each field or use the number buttons to

To cancel the Sleep Timer, select Off

Activate.

select. You can set three different on/off timer settings You must set the clock first. ■ On Time / Off Time: Set the hour, minute, am/pm, and Activate/Inactivate fields for the On Time and Off Time. Use the ◄/► buttons to move from field to field. Use the ▲/▼ buttons to change the values in each field. To activate the timer with

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

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

■ 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

connected to your TV before you can select USB - Antenna: Displays the current antenna source. Air or Cable - Channel: If you have selected TV, select the desired channel.

The maximum displayed number of files, including subfolders, 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.

and the type or name of the device.

If there are no folders on your device, press the Yellow select button to select the Root folder, and then press the RETURN button. The Timer screen

3. Use the ▲/▼ buttons to highlight a folder that contains music or photos, and then press the Yellow select button to select the folder. 4. Press the RETURN button. The Timer screen re-appears.

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

The Clock Set screen appears. Use the ▲/▼ buttons to

Sleep Timer TOOLS

Timer 1 / Timer 2 / Timer 3

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

■ Volume: Set the desired loudness.

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

select a folder containing MP3 (Music) or JPEG (Photo) files on the USB device:

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

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)

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

re-appears

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

□ Other Features

Program Rating Lock The **Program Rating Lock** feature lets you block programs you've determined are inappropriate for your children based on the program's ratings. To access the **Program Rating Lock**

Program Rating Lock is not available in HDMI or The default PIN number of a new TV set is "0-0-0-0". You can

he 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**

set your own PIN using the Change PIN function.

and then press the ENTER button. The options are listed below ■ TV Parental Guidelines: You can block TV programs based on their ratings. This function allows you to control what your children are watching.

ENTER key again. Depending on what type of programs or

movies you want to block select one of the ontions on the screen

mplemented 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

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

/ L: Adult Language / D: Sexually Suggestive Dialog.

be used while watching DTV channels.

has memorized your new PIN.

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

content. A lock appears. To unlock/unblock, click the square again. When you click a low rating, all the ratings above it will also display locks. You can also Allow All or Lock All. When done, press the RETURN button on your remote. ■ Change PIN: The Change PIN screen will appear. Choose any 4 digits for your PIN and enter them in Enter New PIN fields. Re-enter the same 4 digits in **Confirm New PIN** fields. When the

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

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

Game Mode (On/Off) When you connect a game console such as a PlayStation™ or Xbox™ to your TV, you can enjoy a more realistic gaming

· Before you disconnect the game console and connect another external device, set Game Mode to Off in the setup men • If you display the TV menu in Game Mode, the screen shakes

Same Mode is not available when the input source is set to After connecting the game console, set Game Mode to On

■ Caption Mode: You can select the desired caption mode. Default / CC1 ~ CC4 / Text1 ~ Text4: (analog channels only) The Analog Caption function operates in either analog TV channel mode or when a signal is supplied from an external device to the

Default / Service1~Service6 / CC1~CC4 / Text1~Text4:

(Digital channels only) The Digital Captions function works with

Size: Options include Default, Small, Standard and Large. The

Service1~6 may not be available in digital caption mode

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,

Background Opacity: This adjusts the opacity of the cantion background Ontions include Default Transparent Translucent, Solid and Flashing. Return to Default: This option sets each Size, Font Style,

Foreground Color, Background Color, Foreground Opacity

select **Default** and **Service1** ~ **Service6** in **Caption Mode**. The Foreground and Background cannot be set to the

Boot Logo Enable/disable displaying the logo while the TV starts up.

Eco Solution ■ Energy Saving (Off / Low / Medium / High / Picture Off) This adjust the brightness of the TV in order to reduce power consumption. If you select Picture Off, the screen is turned

off, but the sound remains on. Press any button except volume

button to turn on the screen. ■ Eco Sensor (Off / On): To enhance your power savings: the picture settings will automatically adapt to the light in the room If you adjust the **Backlight**, the **Eco Sensor** will be set to

brightness can be adjusted manually If Eco Sensor is On, the display brightness may change (become slightly darker in most cases) depending on the surrounding light intensity.

off when no user operation is received for 4 hours.

the formation of ghost images on the screen

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

■ Auto Protection Time (Off / 2 hours / 4 hours / 8 hours / 10

hours): If the screen remains idle with a still image for a certain

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

Disabled when the PC is in power saving mode. ■ Auto Power Off (Off / On): The TV will be automatically turned

Auto Protection Time

being received.

Support Menu

on the screen

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

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

The PIN input screen appears before the setup screen.

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

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 eception quality is either perfect or the channels are unavailable.

Adjust your antenna to increase signal strength.

■ Reset: Reset all settings to the factory defaults.

Software Upgrade

HD Connection Guide Refer to this information when connecting external devices to the

Software Upgrade can be performed by downloading the latest

irmware from samsung.com to a USB memory device.

Contact Samsung

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

Media Play

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

2. Connect a USB device containing photo, music, or movie files to



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

press the ENTER button.

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

Do not disconnect the USB device while it is loading

"Not Supported File Format" message appears. The TV cannot play MP3 files with DRM that have been oaded from a for-pay site. Digital Rights Management

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

☐ The Channel List Tools Menu TOOLS ☐

The Channel List Tools menu contains most of the functions you

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

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

You add channels back to the **Added Channels** list on the All Channels list.

■ Add to Favorite/Delete from Favorite: Lets you add channels to and delete channels from your Favorites list

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

☐ Connecting a USB Device

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

3. Press the MEDIA.P button on your remote. The Media Play Min. Backlight: When Eco Sensor is On, the minimum screen



n to select **Media Plav (USB)**. and the

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

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

 The maximum supported JPEG resolution is 15360 x 8640 pixels. • If a file is corrupted or the TV does not support the file type, the

managing billing and settlements



 Press the

✓ or

✓ button to select an icon (Videos, Music.) Photos, Settings), and then press the ENTER button Media Play might not work properly with unlicensed

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

(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

The Tools menu appears.

selected, at the time you selected, from that day on. If you select **Once**, the TV will turn on once, on the date

Hist, Food, Golf, etc. This makes it easier to find and select a

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view the digital program list. If you highlight a program in the list, and then press the ENTER (Schedule) button,

appears. Programmed List Screen Tools Menu TOOLS,

3. Select **Time Viewing** in the Tools menu, and then press the ENTER → button. The Time Viewing screen appears.

and the ▲/▼ buttons to change the entries. Where numbers are displayed, you can also enter numbers directly using the

Only Added Channels can be scheduled Scheduled programs and channels are displayed in the

name of up to five characters to an analog channel. For example,

You can only select Deselect All when one or more channels are selected. ■ Auto Program: See Auto Program under Memorizing Channels.

accessories, options, upgrades, or consumables. Wide screen format LED Displays (16:9, the aspect ratio of the

Still image warning

recommendations below:

Avoid displaying still images (such as jpeg picture files) or still

details.			
	G WORLD WIDE ions or comments relating to AMSUNG customer care co		
Country	CANADA	U.S.A	
Address	Samsung Electronics Canada Inc. 2050 Derry Road West, Mississauga, Ontario L5N 0B9 Canada	Samsung Electronics America, Inc. 85 Challenger Road Ridgefield Park, NJ 07660	
Customer Care	1 900 CAMCLING (706 7964)		

Channels)

select Favorite Channels, you will only see Favorite channels when you press the **∧CH∨** button. 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

Sine tuned channels that have been saved are marked with

To reset fine-tuning, select the channel, select Fine Tune, and

as this is done automatically during the search and store

Select the channel, and then select Fine Tune.

then select Reset on the Fine Tune screen

an asterisk "*" on the right-hand side of the channel number

manually.

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

Setup Menu

□ Setting the Time

Choose between English, Español, and Français.

1. Select Setup >Time > Clock.

The TV will automatically download the correct time from a

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

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 🗗 press either the ENTER or RETURN button.

feature and make any changes, you must enter a PIN (personal dentification number). To watch a blocked program, you must also Automatically shuts off the TV after a preset period of time. (30, enter the same PIN.

> How It Works When you access the Program Rating Lock Menu functions for

■ MPAA Rating: You can block movies based on their MPAA ratings. The Motion Picture Association of America (MPAA) has

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

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)

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

■ Digital Caption Options: (Digital channels only)

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

same color.

experience by turning on the Game Mode function. Precautions and limitations for game mode:

You may notice slightly reduced picture quality. (On-Screen Text Dialogue)

TV. (Depending on the broadcasting signal, the Analog Caption

function may or may not work with digital channels.)

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.

and Background Opacity to its default. Digital Caption Options are available only when you can

• The file system supports FAT16, FAT32 and NTFS. Certain types of USB Digital camera and audio devices may not be compatible with this TV.

- 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 recognized or may malfunction.
- If the TV has no input during the time period set in **Auto Protection Time**, the Screensaver will run.
- If you use a USB extension cable, the TV may not recognize the USB device or may not be able to read the files on the device. If a USB device connected to the TV is not recognized, the list of files on the device is corrupted, or a file in the list is not played, connect the USB device to a PC, format the device, and check
- If a file you deleted from the PC is still found when you run Media Play, use the "Empty the Recycle Bin" function on the PC to permanently delete the file.
- Photos only supports the sequential jpeg 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.



- 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.

Trouble Powering On

Stand Assembly

Poor Picture

Cannot find a channe

The picture is distorted: macroblock

error, small block, dots, pixelization

There is poor color or brightness

The picture is black and white

There is a dotted line on the edge of

When changing channels, the picture freezes or is distorted or delayed.

There is no sound or the sound is too

The picture is good, but there is no

Color is wrong or missing.

the screen.

Sound Problems

low at maximum volume

The speakers are making an

inappropriate noise

No Picture, No Video

The TV will not turn on

The TV turns off automatically.

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- The file name is displayed on the top of the screen with the
- If video time information is unknown, playing time and the progress bar are not displayed.
- ▶ buttons. In this mode, you can play movie clips contained in a game,

During video playback, you can search using the ◀ and

but you cannot play the game itself.

Supported Subtitle Formats

xternai	
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

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

Supported Video Formats

	File Extension	Container	Video Codec	Resolution	Frame rate(fps)	Bit rate(Mbps)	Audio Codec
			Divx3.11/4.12/ 5.x/6.0	1920x1080	6~30	20Mbps	MP3 / ADPOM / AAC
	*.mp4	MP4	H264	1920x1080	6~30	20Mbps	
			VC-1	1920x1080	6~30	20Mbps	
			MJPEG	640x480	6~30	10Mbps	
			Divx3.11/4.12/ 5.x/6.0	1920x1080	6~30	20Mbps	MP3 / AC3
	"*.avi	*AVI	MPEG 1/2/4	1920x1080	6~30	20Mbps	/ LPCM / ADPCM / DTS
	*.mkv"	MKV"	H264	1920x1080	6~30	20Mbps	
			MJPEG	640x480	6~30	10Mbps	
	"*.asf		Divx 3.11/4.12/ 5.x/6.0	1920x1080	6~30	20Mbps	MP3 / AC3 / LPCM /
.wmv	ASF	MPEG 1/2/4	1920x1080	6~30	20Mbps	ADPCM / WMA /	
			H.264	1920x1080	6~30	20Mbps	WMA Pro
	**.ts	TS	MPEG2 -TS	1920x1080	6~30	20Mbps	AC3 / AAC / MP3 /
	*.trp *.tp		H. 264	1920x1080	6~30	20Mbps	DD+
	**.dat		MPEG1	1920x1080	6~30	20Mbps	AC3 /
е	*.mpg *.mpeg	g PS	MPEG2	1920x1080	6~30	20Mbps	MPEG / LPCM /
	*.vob"		H. 264	1920x1080	6~30	20Mbps	AAC
			MPEG 1/2/4	1920x1080	6~30	20Mbps	
	*.3gp	3GPP	H.264	1920x1080	6~30	20Mbps	MP3
	**	*.flv flash formats	H.264	1920x1080	6~30	20Mbps	MP3
	-,IIV		Sorenson H.263	1920x1080	6~30	20Mbps	

Other Restrictions

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 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

If you're sure your power cord, remote control, and PC are functioning properly, you may be having a cable issue. It

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.

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

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

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

• 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

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.

Adjust the Picture options in the TV menu. (go to Picture Mode / Color / Brightness / Sharpness)

• 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.

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

ou have a cable or satellite box, your TV may appear to be off because the cable or satellite box is not outputting a

before making a call to the service department.

keyboard or move the mouse. Then try turning your TV on.

Go to MENU - Support - Self Diagnosis - Picture Test

deliver HD (high definition) picture quality.

scaled SD content is low.

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

Cable/Satellite subscribers: Try HD channels from the channel line up.

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

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

• 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

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

• Perform the **Sound Test** as explained above.

Make sure the wall outlet is working.

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

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.

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

If the TV turns on, refer to 'Remote control does not work' below.

• 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.

Try pressing the POWER button on the TV to make sure the problem is not the remote.

· Change the cable/satellite box resolution

may take up to 20 minutes)

Incorrect or loose connections may cause color problems or a blank screen

• Air/Cable Antenna connection: Try HD channels after running Auto Program.

you find that you are having trouble powering on your Samsung television, there are a number of things to check it

- Video content will not play, or not play correctly, if there is an
- error in the content or the container Sound or video may not work if the contents have a standard bit rate/ frame rate above the compatible Frame/sec listed in the
- Supported Video Formats table. • If the Index Table erroneous, the Seek (Jump) function is not
- 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

Supports up to H.264, Level 4.1 H.264 FMO / ASO / RS, VC1 SP / MP / AP L4 and AVCHD are not supported.

- Below 1280 x 720: 60 frame max
- Above 1280 x 720: 30 frame max
- H.263 is not supported.

WMA Lossless is not supported.

GMC is not support. Audio Decoder

Video Decoder

MPEG4 SP, ASP

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



- 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.

RF (Cable/Antenna) Connection

No Caption on digital channels.

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

Purple/green rolling horizontal bars and

buzzing noise from the TV speakers wit

Component cable connection

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.

Your settings are lost after 5 minutes or

You have intermittent loss of audio or

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

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

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

The Channel menu is grev out

every time the TV is turned off.

(unavailable).

The TV is not receiving all channels.

- During music playback, you can search using the ◀ and
- (REW) and (FF) buttons do not function during
- 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 select Photos, then press the ENTER 🗗 button.
- 2. Press the $\blacktriangleleft/\blacktriangleright/\blacktriangle/\blacktriangledown$ buttons to select a photo in the file list. 3. Press the ENTER → button or ► (Play) button.
- NOTE
- While a photo list is displayed, press the ▶ (Play) / ENTER → button on the remote control to start a slide show.
- All files in the file list section will be displayed in the slide show · During the slide show, files are displayed in order
- You can move to other files using

 or

 button.
- Nou cannot change the Mode in Background Music until the
- Background Music file has finished loading. Supported Photo Formats

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

Other Restrictions

CMYK, YCCK Color space JPEG are not supported.

Playing Multiple Files

- Playing selected video/music/photo files 1. On the File List screen, highlight a file, and then press the Yellow
- button on your remote.
- 2. Repeat Step 1 to select multiple files. NOTE
- A
 ✓ mark appears to the left of the selected files.
- To cancel a selection, press the Yellow button again • To deselect all selected files, press the TOOLS button, select
- Deselect All, and then the ENTER → button. 3. Press the TOOLS button, select Play Selected Contents, and
- then press the ENTER button
- Playing a video/music/photo folder
- 1. With the folders on your USB device displayed, use the
- ◄/►/▲/▼ buttons to highlight a folder. 2. Press the TOOLS button, select Play Folder, and then press the
- ENTER button.

• 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.

• Make sure your connected devices are powered on.

• Make sure the coaxial cable is connected securely.

Verify the antenna is positioned co

resolution settings in this manual.

Some channels may not have caption data

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

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

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

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

The cable/set top box remote control

• Program the Cable/Set top box remote control to operate the TV. Refer to the Cable/Set top box user manual for

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

Run Auto Program to add available channels to the channel list.

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

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

. Remove the stand base from the TV and reassemble it

Check the cable connections and reconnect them.

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

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

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

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

TV mode, go to MENU \rightarrow Setup \rightarrow Plug & Play \rightarrow ENTER \blacksquare .

🖏 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.

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

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.

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)

Compression of video contents may cause picture distortion, especially on fast moving pictures such as those in sports and action movies.

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

• Check the supported resolution of the TV and adjust the external device's output resolution accordingly. Refer to

• If TV is in the Store Demo mode, it will reset audio and picture settings every 5 minutes. Please change from

• 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

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

Media Play - Additional Functions

■ Videos/Music/Photos Play Option menus When playing a file, press the TOOLS button.

Category Operation Videos Music Photos

Category	Operation	videos	IVIUSIC	Photos
Title	You can select another video file to play directly.	~		
Repeat Mode	You can play movie and music files repeatedly.	~	~	
Picture Size	You can adjust the picture size to your preference.	~		
Picture Mode	You can adjust the picture setting.	✓		✓
Sound Mode	You can adjust the sound setting.	✓	✓	✓
Subtitle Setting	You can play the video with Subtitles. This function only works if the subtitles have the same file name as the video.	~		
Audio Format	You can select the digital audio output format.	~		
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.			~
Information	You can see detailed information about the played file.	~	~	~

Installing the Wall Mount Kit

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

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

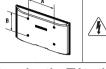
Wall Mount Kit Specifications (VESA)

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

NOTE

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

Product Family	TV size in inches	VESA screw hole specs (A * B) in millimeters	Standard Screw	Quantity
LED-TV	24	75 X 75	M4	4
	A .			



rsonal injury due to electric shock.

Do not install your Wall Mount Kit while

your TV is turned on. It may result in

Securing the TV to the Wall



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.
- tightly to the brackets. Verify all connections are properly secured. Periodically check
- professional installer.
- 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.

- 🖎 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





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5.638.452, 5.771.295, 5.970.152, 5.912.976, 7.200.236, 7.492.907, 8.050.434, 7.720.240, 7.031.474. 7.907.736 and 7.764.802. DTS. the Symbol, and DTS and the Symbol together are registered trademarks &



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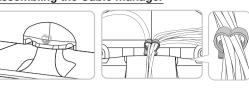
- 2. Using screws, insert the screws through the TV brackets, and then fasten the screws to the top VESA screw holes on the back
- 3. Connect the brackets on the TV and the brackets on the wall with a strong string or cable, and then tie the string or cable
- the connections for any sign of fatigue or failure. If you have any doubt about the security of your connections, contact a
- Install the TV close to the wall so that it does not fall.
- To purchase a TV Holder kit, contact Samsung customer

Kensington Lock

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

- information on proper use. Second Please find a "R" icon on the rear of the TV. The Kensington
- The position and color may differ depending on the model.

Assembling the Cable manager



720 x 400 31.469 70.087 28.322 640 x 480 35.000 66.667 30.240 832 x 624 49.726 74.551 57.284 640 x 480 31.469 59.940 25.175 37.861 72.809 31.500 37.500 75.000 31.500 37.879 60.317 40.000 48.077 72.188 50.000 46.875 75.000 49.500 800 x 600 48.363 60.004 65.000 1024 x 768 56.476 70.069 75.000 1024 x 768 60.023 75.029 78.750 +/+ 1280 x 720 45.000 60.000 74.250

47.712 59.790 85.500

Display Modes (HDMI/DVI Input)

Troubleshooting

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

Problem	Possible Solution			
Flickering and Dimming	If your Samsung Television is flickering or dimming sporadically, you may need to disable some of its energy efficien 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: 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 (G/R) 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.			
	$\bullet \ Sleep Timer : MENU \to Setup \to Time \to Sleep Timer$			
	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 : MENU \rightarrow Setup \rightarrow Eco Solution \rightarrow No Signal Power			
	 Auto Power Off: MENU → Setup → Eco Solution → Auto Power Off 			

Storage and Maintenance



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



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



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send inquiries and requests for questions regarding open sources, contact Samsung via Email (oss.request@samsung.com). ■ This product uses some software programs which are distributed under the Independent JPEG Group.

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Specifications Environmental Consideration 50°F to 104°F (10°C to 40°C) Operating Temperature 10% to 80%, non-condensing -4°F to 113°F (-20°C to 45°C) 5% to 95%, non-condensing torage Temperature orage Humidity T24D310NH Model Name Display Resolution 1366 x 768 24" Class Screen Size (23.6" measured diagonally (Diagonal) Dimensions (W x H x D) 22.1 x 13.7 x 1.8 inches (561.8 x 349.1 x 47.9 (mm) With stand (561.8 x 383.2 x 163.8 (mm)

With Stand

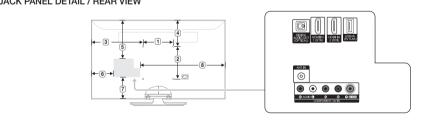
Design and specifications are subject to change without prior notice.

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.

9.0 lbs (4.1 kg

Vithout Stand



T24D310NH 2.9 2.9 9.5 3.8 4.8 3.3 3.5

NOTE: All drawings are not necessarily to scale. Some dimensions are subject to change without prior notice. Refer to the dimensions prior to perfinstallation of your TV. Not responsible for typographical or printed errors. © 2014 Samsung Electronics America, Inc

• 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

 During the slide show, you can adjust the slide show speed using (◄) (REW) or (►) (FF) button. Media Play can play Music files automatically during a Slide Show if Background Music is set to On.

Other Information