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

Wide screen format LED Displays with aspect ratios of 16:9 (the ratio of the screen width to screen height) are primarily designed to display 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 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 crawls, 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. 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

# SAMSUNG ELECTRONICS NORTH AMERICAN LIMITED WARRANTY

Subject to the requirements, conditions, exclusions and limitations of the original Subject to the requirements, continions, excusions and imitations 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 and the Original Limited Warranty Statement, a dated Bill of Sale as Proof of Purchase must be presented to the Service Center. Transportation to and from the Service Center is the responsibility of the purchaser. Conditions covered are limited only to manufacturing defects in material or workmanship, and only those encountered in normal use of the product. Exclusions include, but are not limited to, 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 Linited States: 1:800-SAMSUNG (1:800-726-7864)

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



#### Still image warning

Avoid displaying still images (such as jpeg picture files) or still image elements (such as TV channel logos, panorama or 4:3 image format, stock or news bars at screen bottom etc.) on the screen. Constant displaying of still pictures can cause ghosting o LED screen, which will affect image quality. To reduce risk of this effect, please follow below recommendations:

- Avoid displaying the same TV channel for long periods.
  Always try to display any image on full screen, use TV set picture format menu for
- · Reduce brightness and contrast values to minimum required to achieve desired Headuce originness and contrast values to minimum required to achieve desire picture quality, exceeded values may speed up the burnout process.
   Frequently use all TV features designed to reduce image retention and screen

#### burnout, refer to proper user manual section for details Securing the Installation Space

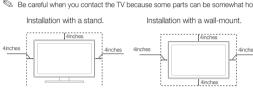
Keep the required distances between the product and other objects (e.g. walls) to ensure proper ventilation.

Failing to do so may result in fire or a problem with the product due to an increase in When using a stand or wall-mount, use parts provided by Samsung Electronics

 If you use parts provided by another manufacturer, it may result in a problem with the product or an injury due to the product falling.

The appearance may differ depending on the product.

Be careful when you contact the TV because some parts can be somewhat hot.



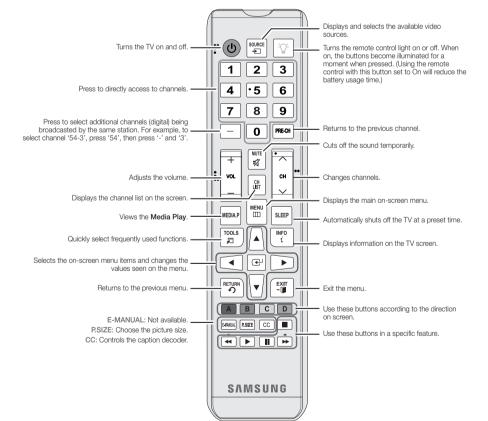
		center.	
Country	CANADA	U.S.A	
Address	Samsung Electronics Canada Inc. 2050 Derry Road West, Mississauga, Ontario L5N 0B9 Canada	Samsung Electronics America, Inc. 85 Challenger Road Ridgefield Park, NJ 0766	
Customer Car Center 🕿	1-800-SAMSUNG (726-7864	1-800-SAMSUNG (726-7864)	
Web Site	www.samsung.com/ca/ support (English) www.samsung.com/ca_fr/ support (French)	www.samsung.com/us/ support	

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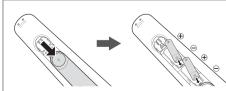
## Remote Control

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



Mode	Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H / V)	1366 x 76
IBM	640 x 350	31.469	70.086	25.175	+/-	<b>✓</b>
IDIVI	720 x 400	31.469	70.087	28.322	-/+	<b>✓</b>
	640 x 480	35.000	66.667	30.240	-/-	<b>✓</b>
MAC	832 x 624	49.726	74.551	57.284	-/-	<b>✓</b>
	1152 x 870	68.681	75.062	100.000	-/-	
	640 x 480	31.469	59.940	25.175	-/-	<b>✓</b>
	640 x 480	37.861	72.809	31.500	-/-	<b>✓</b>
	640 x 480	37.500	75.000	31.500	-/-	<b>✓</b>
	800 x 600	37.879	60.317	40.000	+/+	<b>✓</b>
	800 x 600	48.077	72.188	50.000	+/+	<b>✓</b>
	800 x 600	46.875	75.000	49.500	+/+	<b>✓</b>
	1024 x 768	48.363	60.004	65.000	-/-	<b>✓</b>
	1024 x 768	56.476	70.069	75.000	-/-	<b>✓</b>
	1024 x 768	60.023	75.029	78.750	+/+	<b>✓</b>
VESA DMT	1152 x 864	67.500	75.000	108.000	+/+	
	1280 x 720	45.000	60.000	74.250	+/+	<b>✓</b>
	1280 x 800	49.702	59.810	83.500	-/+	
	1280 x 1024	63.981	60.020	108.000	+/+	
	1280 x 1024	79.976	75.025	135.000	+/+	
	1366 x 768	47.712	59.790	85.500	+/+	<b>✓</b>
	1440 x 900	55.935	59.887	106.500	-/+	
	1600 x 900RB	60.000	60.000	108.000	+/+	
	1680 x 1050	65.290	59.954	146.250	-/+	
İ	1920 x 1080	67,500	60,000	148,500	+/+	

## Installing batteries (Battery size: AAA)



 Use the remote control within 23 feet from TV. · Bright light may affect the performance of the remote control.

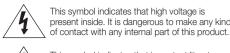
Avoid use when nearby fluorescent lights or neon signs. • The Color and shape may vary depending on the model.

### **Warning! Important Safety Instructions**

# Please read the safety instructions below before installing and using the product.

#### CAUTION

SHOCK DO NOT REMOVE COVER (OR BACK). THERE ARE NO USER SERVICEABLE PARTS INSIDE. REFER ALL SERVICING TO QUALIFIED PERSONNEL.



This symbol indicates that important literature concerning operation and maintenance has been included with this product.

- The slots and openings in the cabinet and in the back or bottom are provided for necessary ventilation. To ensure reliable operation of this apparatus, and to protect it from overheating, these slots and openings must never be blocked or covered - Do not cover the slots and openings with a cloth or other materials.
  - Do not block the slots and openings by placing this apparatus on a bed, sofa, rug or other similar surface
- Do not place this apparatus in a confined space, such as a bookcase or built-in cabinet, unless proper ventilation is provided. • Do not place this apparatus near or over a radiator or heat register, or where it is exposed to direct sunlight.
- Do not place a vessel containing water (vases etc.) on this apparatus, as this can result in a risk of fire or electric shock. • Do not expose this apparatus to rain or place it near water (near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool etc.). If this apparatus accidentally gets wet, unplug it and contact an authorized dealer immediately.
- Make sure to pull out the power cord from the outlet before cleaning.
- This apparatus use batteries. In your community, there might be regulations that require you to dispose of these batteries properly to protect the environment. Please contact your local authorities for disposal or recycling information.
- Do not overload wall outlets, extension cords, or adaptors beyond their capacity, since this can result in fire or electric shock.
- Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them. Pay particular attention to cords at the plug end, where connected to adaptors, and at the point where they exit from the apparatus.
- To protect this apparatus from a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the set due to lightning and power line surges. Before connecting the AC power cord to the DC adaptor outlet, make sure the voltage designation of the DC adaptor corresponds to the local
- electrical supply. (depending on the model) • Never insert anything metallic into the open parts of this apparatus. Doing so may create a danger of electric shock.
- To avoid electric shock, never touch the inside of this apparatus. Only a qualified technician should open this apparatus. • Make sure to plug the power cord in until it is firmly inserted. Pull on the plug, not the cord, when removing the power cord from the outlet. Do
- If this apparatus does not operate normally in particular, if there are any unusual sounds or smells coming from it unplug it immediately and
- Be sure to pull the power plug out of the outlet if the TV is to remain unused or if you are to leave the house for an extended period of time (especially when children, elderly or disabled people will be left alone in the house). - Accumulated dust can cause an electric shock, an electric leakage, or a fire by causing the power cord to generate sparks and heat,
- or cause the insulation to deteriorate • Be sure to contact an authorized service center, when installing your set in a location with heavy dust, high or low temperatures, high humidity,
- chemical substances or where it will operate for 24 hours a day such as in an airport, a train station, etc. Failure to do so may cause serious damage to your set.
- Use only a properly grounded plug and receptacle.
- An improper ground may cause electric shock or equipment damage. (Class I Equipment only.) • To turn off the apparatus completely, you must pull the power plug out of the wall socket. Consequently, the power plug should be readily accessible at all times
- Do not allow children to hang onto the product.
- Store the accessories (batteries, etc.) in a location safely out of the reach of children.
- Do not install the product in an unstable location such as a shaky self, a slanted floor, or a location exposed to vibration.
- Do not drop or impart a shock to the product, If the product is damaged, disconnect the power cord and contact a service center.
- To clean the product, unplug the power cord from the power outlet and wipe the product using a soft cloth dipped in a small amount of water Do not use any chemicals such as wax, benzene, alcohol, thinners, insecticide, air freshener, lubricant or detergent. This may damage the
- appearance or erase the printing on the product. Do not expose the apparatus to dripping or splashing.
- Do not dispose of batteries in a fire.
- Do not short circuit, disassemble, or overheat the batteries
- There is a danger of explosion if you replace the batteries with the wrong type of battery. Replace only with the same or equivalent type. • WARNING - TO PREVENT THE SPREAD OF FIRE, KEEP CANDLES OR OTHER OPEN FLAMES AWAY FROM THIS PRODUCT AT ALL

## ☐ Seeing Channels

## Channel List

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

- Mall Channels: Shows all currently available channels ■ → Added Channels: Shows all added channels.
- **Favorite**: Shows all favorite channels.
- Programmed: Shows all currently reserved programs
- Using the remote control buttons with the Channel List Green (Zoom): Enlarges or shrinks a channel number.
- Yellow (Select): Selects multiple channel lists. Select desired channels and press the Yellow button to set all the selected channels at the same time. The  $\checkmark$  mark appears to the left of
- 🞵 (Tools): Displays the Channel List option menu. (The Options menus may differ depending on the situation.)

## **Channel Status Display icons**

- ✓: A channel selected • • : A channel set as a Favorite
- C : A reserved program. • 🛎 : A program currently being broadcast.
- Memorizing channels

## Antenna (Switch to Cable / Switch to Air TOOLS 71)

nust specify the type of signal source that is connected to the TV (i.e.

## Auto Program

When selecting the Cable TV system: Selects the cable system. STD, HRC and IRC identify various types of cable TV systems. Contact your local cable company to identify the type of cable system that exists in your particular area. At this point, the signal

source has been selected. After all the available channels are stored, it starts to remove scrambled channels. The Auto Program menu then reappears.

Press the ENTER button to stop the channel store during Auto

#### **How to Stop Auto Programming** 1. Press the ENTER 4 button

2. A message will ask Stop Auto Program?. Select Yes by pressing

3. Press the ENTER button.

## □ Other Features

**Clear Scrambled Channel** This function filters out scrambled channels after Auto Program is completed. This process may take up to 20~30 min

Press the ENTER button to stop the Clear Scrambled This function is only available in Cable mode

# **Channel List**

# **Channel List Option Menu**

# Channel List → TOOLS

- Set each channel using the **Channel List** menu options. Option menu tems may differ depending on the channel status.
- Add / Delete: Delete or add a channel to display the channels you
- All deleted channels will be shown on the All Channels menu
- A gray-colored channel indicates the channel has been deleted.
- The **Add** menu only appears for deleted channels. Delete a channel from the Added Channels or Favorite menu in
- Add to Favorite / Delete from Favorite TOOLS : Set channels you
- Timer Viewing: You can set a desired channel to be displayed automatically at the set time; even when you are watching another channel. Set the current time first to use this function.
- Only memorized channels can be reserved. Reserved programs will be displayed in the Programmed menu
- When a digital channel is selected, press the ▶ (Next Program) button to view the digital program. If you select the ENTER □ (Schedule) button on the next program, you can set Timer Viewing directly.
- Channel Name Edit: (analog channels only) Assign your own
- Select All: Select all the channels in the channel list.
- Deselect All: Deselect all the selected channels. You can only select Deselect All when one or more channels
- Auto Program: Scans for a channel automatically and stores in the

# Programmed

# Channel List → Programmed → TOOLS #

- You can view, modify or delete a show you have reserved to watch. ■ Change Info: Change a show you have reserved to watch.
- Cancel Schedules: Cancel a show you have reserved to watch ■ Information: Display a show you have reserved to watch. (You can
- also change the reservation Information.) ■ Select All / Deselect All: You can select or deselect all channels in

## Channel Mode

Change the channel mode directly between Added Channels and The Favorite Channels is enabled only when you set Add to

Fine Tune

## (analog channels only)

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

To reset the fine-tuning, select Reset.

## Getting Started

• Remote Control & Batteries (AAA x 2)

· Warranty Card / Regulatory Guide

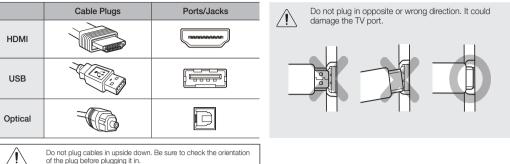
## Accessories

## • Power Cord

## Owner's Instructions

Input Cables (Sold Separately)				
<ul><li>Audio</li><li>Composite (AV)</li></ul>	<ul><li>Component</li><li>Coaxial (RF)</li></ul>	• HDMI • HDMI-DVI		

### Make sure you have the correct cable before plugging it in. Illustrations of common plugs and jacks are shown below



### TV Controller (Panel Key)

The TV's Controller, a small joy stick like button on the bottom right side of the TV, lets you control the TV without the remote control.

## Selecting the Media Play Function menu **□ □ □** Selecting a Source Power Off The image is drawn by facing the front side of the TV.

Exits the menu when pressing the controller more than 1 second. when selecting the function by moving the controller to the up/down/left/right directions, be sure not to press the controller. If you press it first, you cannot operate it to move the up/down/left/right directions.

### Plug & Play (Initial Setup)

When you turn the TV on for the first time, a sequence of screens and on-screen prompts will assist you in configuring the TV's basic settings. Press the POWER button. Plug & Play is available only when the Input source is set to TV. Set the initial setup following instructions that the TV guides. Connecting the power cord and antenna. (refer to 'Connections')

# Mode Tools, ☐

Picture Menu

Select your preferred picture type.

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

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

Your television has several setting options for picture quality control. When connecting a PC, you can only make changes to Backlight, Contrast, Brightness and Sharpness.

# **Picture Options**

- When connecting a PC, you can only make changes to the Color Tone, Size, and HDMI Black Level.
- Color Tone: Cool makes the picture bluer (cooler). Warm 1 and Warm 2 make the picture redder (warmer). ■ Size: Your cable box/satellite receiver may have its own set of screen sizes as well. However, we highly recommend you use 16:9 mode
- most of the time. The menu is deactivated, when the H. 264 (1080p) DTV is being
- **16:9**: Sets the picture to 16:9 wide mode. **Zoom1**: Use for moderate magnification.
- Zoom2: Use for a stronger magnification Wide Fit: Enlarges the aspect ratio of the picture to fit the entire **4:3**: Sets the picture to basic (4:3) mode.
- displayed on the left, right and center of the screen may cause image retention (screen burn) which are not covered by the Screen Fit: (DTV) Displays the full image without any cut-off when
- HDMI (720p / 1080i / 1080p) or Component (1080i / 1080p) signals are inputted. MD (High Definition): 16:9 - 1080i/1080p (1920x1080), 720p (1280x720)

Do not watch in 4:3 format for a long time. Traces of borders

- Settings can be adjusted and stored for each external device you have connected to an input on the TV. Picture Sizes available by Input Source
- Picture Size ATV. AV. Component (480i, 480n) 16:9, Zoom1, Zoom2, 4:3 DTV (1080i), Component (1080i, 1080p), HDMI (720p, 1080i, 1080p) 16:9, Wide Fit, 4:3, Screen Fit
- Digital Clean View: 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 other options until the best picture ■ HDMI Black Level: Selects the black level on the screen to adjust the
- Film Mode: 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).
- Available in **Standard** mode only.

Available only in HDMI mode (RGB signals).

## Picture Reset

# ets your current picture mode to its default settings.

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

# Sound 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.

## Equalizer

- (standard sound mode only)
- Balance L/R: Adjusts the balance between the right and left speaker.
- 100Hz / 300Hz / 1kHz / 3kHz / 10kHz (Bandwidth Adjustment): Adjusts the level of specific bandwidth frequencies ■ Reset: Resets the equalizer to its default settings.

### DTS TruSurround (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 are capable of simultaneous transmission of many audio tracks (for example, simultaneous trar foreign languages).

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

- Multi-Track Sound
- (analog channels only)

■ SAP: Choose to listen to the Separate Audio Program, which is

- Mono: Choose for channels that are broadcasting in mono or if you re having difficulty receiving a stereo signal. ■ Stereo: Choose for channels that are broadcasting in stereo
- 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.

The SPDIF (Sony Philips Digital InterFace) outputs an uncompress 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: 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

mize your interactive 3D sound experience. ■ Audio Delay: Lets you correct timing mismatches between the audio track and the video when you are watching the TV and listening 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 ■ Motion Lighting: Reduce power consumption by brightness control the left and right arrow buttons to adjust the slider. Press ENTER -

date, request an upgrade.

• For the best picture and audio quality, connect digital devices using an HDMI cable.

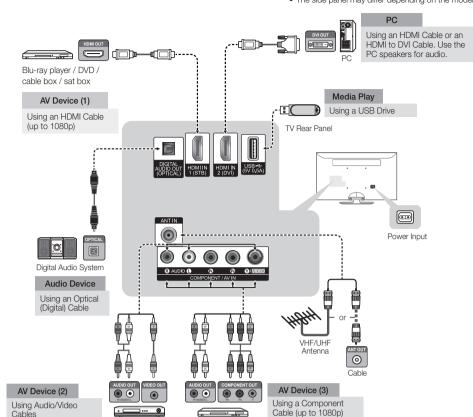
Be sure to purchase a certified HDMI cable. Otherwise, the picture

may not display or a connection error may occur.

• PC/DVI AUDIO IN input is not supported.

- For an HDMI to DVI cable connection, you must use the HDMI IN 2 (DVI) port. • If you connect an external device to the TV that uses an older version
- Connecting through the HDMI cable may not be supported of HDMI, the video and audio may not work. If this occurs, ask the manufacturer of the device about the HDMI version and, if it is out of
  - depending on the Po
  - If an HDMI to DVI cable is connected to the HDMI IN 2 (DVI) port,
  - the audio does not work.

  - For Set-top box connection using HDMI cable, we highly recommend you to connect the HDMI IN 1 (STB) port
  - The side panel may differ depending on the model.



# Changing the Input Source

Source List

Speaker Select

Visual Impaired

(digital channels only)

Sound Reset

Language

Set the menu language

☐ Setting the Time

Mode is set to Auto

Timer 1 / Timer 2 / Timer 3

■ Volume: Set the desired volume level.

To cancel the Sleep Timer, select Off.

■ Sleep Timer TOOLS#

to Activate.)

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

A sound echo may occur due to a difference in decoding speed between

he main speaker and the audio receiver. In this case, set the TV to

When Speaker Select is set to External Speaker, the volume

Adds verbal description to the main audio to help the visually impaired.

DST and Time Zone function is only available when the Clock

Automatically shuts off the TV after a preset period of time. (30, 60, 90, 120, 150 and 180 minutes).

Three different on / off timer settings can be made. You must set the

Inactivate. (To activate the timer with the setting you have chosen, se

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

When Speaker Select is set to External Speaker

If there is no video signal, both speakers will be mute.

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

Choose between English, Español, and Français.

TV Speaker: Off, External Speaker: O

When Speaker Select is set to TV Speaker.

• TV Speaker: On, External Speaker: O

you should set the TV to PC mode under Edit Name.

When connecting a PC to the HDMI IN 2(DVI) port with HDMI 1. Press the SOURCE button. 2. Select a desired external input source to DVI cable, you should set the TV to DVI PC mode under Edit ■ TV / AV / Component / HDMI1 / HDMI2/DVI

Information

#### When connecting an AV devices to the HDMI IN 2(DVI) port with You can only choose external devices that are connected to the TV. In the **Source List**, connected inputs will be highlighted. HDMI to DVI cable, you should set the TV to DVI mode under Edit

How to use Edi t Name

You can see detailed information about the connected external device.

Edit Name lets vou associate a device name to an input source. To

access Edit Name, press the TOOLS button in Source List. Name the device connected to the input jacks to make your input source selection

When connecting a PC to the HDMI IN 2(DVI) port with HDMI cable,

■ Contents: When the On Time is activated, you can turn on a specific channel or play back contents such as photo or audio files - TV/USB: Select TV or USB. (Make sure that an USB device is

connected to your TV.)

- Antenna: Displays the current antenna source. Channel: Select the desired channel. and MUTE buttons will not operate and the sound settings will be
  - Music/Photo: Select the folder containing MP3/JPEG files on the USB device. 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

Manual to set at you convenience. If you select Manual, you can set

#### lower than USB 2.0. ■ Repeat: Select Once, Everyday, Mon~Fri, Mon~Sat, Sat~Sun or

### up the day you want to activate the timer. □ Other Features

Game Mode

- When connecting to a game console such as PlayStation™ or Xbox™ ou can enjoy a more realistic gaming experience by selecting the game
- Precautions and limitations for game mode To disconnect the game console and connect another external device, set Game Mode to Off in the setup menu.
- If you display the TV menu in Game Mode, the screen shakes Game Mode is not available when the input source is set to TV.

After connecting the game console, set **Game Mode** to **On**. Unfortunately, you may notice reduced picture quality.

## **Program Rating Lock**

The current time will appear every time you press the INFO button. The Program Rating Lock feature automatically locks out programs ■ Clock: Setting the clock is for using various timer features of the TV.

\$\text{\text{\text{s}}}\$ If you disconnect the power cord, you have to set the clock again.} \text{\text{that are deemed inappropriate for children. The user must enter a PIN (personal identification number) before any of the Program Rating Lock

■ Program Rating Lock: You can block rated TV Programs DST: (Daylight Saving Time) Switches the DST (Daylight Saving Time ■ TV Parental Guidelines: You can block TV programs depending on

implemented a rating system that provides parents or guardians with

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

■ Canadian French: You can block TV programs depending on their ■ Downloadable U.S. Rating: Parental restriction information can be used while watching DTV channels.

■ Change PIN: The Change PIN screen will appear. Choose any 4 digits for your PIN and enter it in Enter New PIN. Re-enter the same 4 digits in Confirm New PIN. When the Change PIN screen disappears, press the OK button. The TV has memorized your new PIN. If you forget the PIN, press the remote-control buttons in the following sequence, which resets the pin to "0-0-0-0": POWER

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



French Canadian rating.

[UH4000-ZC]BN68-05829S-01ENG.indb 1

ot available, they will not be displayed on the screen The Caption feature does not work in Component or HDMI

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

Default / Service1~Service6 / CC1~CC4 / Text1~Text4: (digital channels only) The Digital Captions function works with digital Service1~6 may not be available in digital caption mode

depending on the broadcast. ■ Digital Caption Options: (digital channels only)

Size: Options include Default, Small, Standard and Large. The default Font Style: Options include Default and Styles 0 to 7. The default is

Foreground Color: Options include Default, White, Black, Red, Green, Blue, Yellow, Magenta and Cvan You can change the color of the letter. The default is White.

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

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

Digital Caption Options are available only when Default and

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

#### **Eco Solution**

■ Energy Saving: 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.

automatically adapt to the light in the room If you adjust the Backlight, the Eco Sensor will be set to Off. Min. Backlight: When Eco Sensor is On, the minimum screen

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 ■ No Signal Power Off: Sets how 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: The TV will be automatically turned off when no user

peration is received for 4 hours.

nay or may not work with digital chan

### **Auto Protection Time**

(On-Screen Text Messages)

If the screen remains idle with a still image for a certain period of time defined by the user, the screen saver is activated to prevent the formation of ghost images on the screen.

Support Menu

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

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

■ Signal Strength: (digital channels only) An HD channel's reception quality is either perfect or the channels are unavailable. Adjust your antenna to increase signal strength. ■ Reset: Reset all settings to the factory defaults. The PIN input screen appears before the setup screen

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

### Software Upgrade

Software Upgrade can be performed by downloading the latest ware from samsung.com to a USB memory device

# HD Connection Guide

Refer to this information when connecting external devices to the TV. Contact Samsung

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

Service1-Service6 can be selected in Caption Mode.

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



### Connecting a USB Device

1. Turn on your TV.

2. Connect a USB device containing photo, music and/or movie files to the USB jack on the side of the TV.

■ Eco Sensor: To enhance your power savings; the picture settings will 3. When USB is connected to the TV, you can select Media Play (USB)

☐ Using the Media Play Menu Press the MENU button Press the ▲ or ▼ button to select

Applications, then press the ENTER & button

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

downloaded from a for-pay site. Digital Rights Management

(DRM) is a technology that supports the creation, distribution, and management of digital content in an integrated and

Component cable connection.

The picture will not display in full screen

The remote control does not work.

There is a plastic smell from the TV.

lower than USB 2.0.

comprehensive way including protecting the rights and interests of content providers, preventing illegal copying of contents, and managing billings and settlements.

• The TV cannot play MP3 files with DRM that have been

PTP device is not supported.

1. Press the ◀/▶ buttons to select Videos, then press the ENTER ☑ 2. Press the ▲ or ▼ button to select Media Play (USB), then press the 2. Press the ∢/▶/▲/▼ buttons to select the desired video in the file

3. Press the ◀ or ▶ button to select an icon (Videos, Music, Photos, 3. Press the ENTER → button or ▶ (Play) button Settings), then press the ENTER button. It might not work properly with unlicensed multimedia files.

bar are not displayed. Supported file systems are FAT and NTFS. During video playback, you can search using the ◄/► buttons. Certain types of USB Digital camera and audio devices may not be compatible with this TV. In this mode, you can play movie clips contained in a game, but you cannot play the game itself.

devices. MSC is a Mass Storage Class Bulk-Only Transport device. Examples of MSC are Thumb drives and Flash Card	- External	
Readers. Devices should be connected directly to the TV's USB	Name	File extension
port. USB HDD is not supported.	MPEG-4 timed text	.ttxt
Before connecting your device to the TV, please back up your files     AMOLING is not.	SAMI	.smi
p prevent them from damage or loss of data. SAMSUNG is not esponsible for any data file damage or data loss.	SubRip	.srt
A USB device that requires high power (more than 0.5A) may not	SubViewer	.sub
be supported.	Micro DVD	.sub or .txt
<ul> <li>Do not disconnect the USB device while it is loading.</li> </ul>	SubStation Alpha	.ssa
e higher the resolution of the image, the longer it takes to splay on the screen.	Advanced SubStation Alpha	.ass
<ul> <li>The maximum supported JPEG resolution is 15360 x 8640 pixels.</li> </ul>	- Internal	

- The selected file is displayed on the top with its playing time.

If video time information is unknown, playing time and the progress

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

pported	Video	Forn
---------	-------	------

	THE device is not supported.							
	<ul> <li>If an over-power warning message is displayed while you are connecting or using a USB device, the device may not be</li> </ul>	File Extension	Container	Video Codec	Resolution	Frame rate(fps)	Bit rate(Mbps)	Audi Code
	recognized or may malfunction.  • If the TV has no input during the time set in <b>Auto Protection</b>			DivX3.11 / DivX4 / DivX5 / DivX6	1920x1080	6~30	20Mbps	
	Time, the Screensaver will run.	*.mp4	MP4	H264	1920x1080	6~30	20Mbps	MP3 ADPCN
	<ul> <li>The power-saving mode of some external hard disk drives may be</li> </ul>			VC-1	1920x1080	6~30	20Mbps	AAC
	released automatically when your connect them to the TV.			MJPEG	640x480	6~30	10Mbps	
	<ul> <li>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.</li> </ul>			DivX3.11 / DivX4 / DivX5 / DivX6	1920x1080	6~30	20Mbps	MP3 / A
the device is corr	If a USB device connected to the TV is not recognized, the list of files on	"*.avi *.mkv"	"AVI MKV"	MPEG 1/2/4	1920x1080	6~30	20Mbps	/ LPCN ADPCN DTS
	the device is corrupted, or a file in the list is not played, connect the USB	JIIKV		H264	1920x1080	6~30	20Mbps	
	device to a PC, format the device, and check the connection.			MJPEG	640x480	6~30	10Mbps	
	• If a file you deleted from the PC is still found when you run Media	**.asf		DivX3.11 / DivX4 / DivX5 / DivX6	1920x1080	6~30	20Mbps	MP3 / A
Play, use the "Empty the Recycle Bin" function on the PC to	*.wmv*		MPEG 1/2/4	1920x1080	6~30	20Mbps	ADPC / WMA	
	permanently delete the file.  • Photos only supports sequential jpeq format.			H.264	1920x1080	6~30	20Mbps	WMA F
	The scene search and thumbnail functions are not supported in	**.ts *.trp	TS	MPEG2 -TS	1920x1080	6~30	20Mbps	AC3 / A
	the <b>Videos</b> .	*.tp	10	H. 264	1920x1080	6~30	20Mbps	DD+
	<ul> <li>If the number of files and folders saved on a USB storage device is approximately over 4000, the files and folders may not appear and</li> </ul>	"*.dat		MPEG1	1920x1080	6~30	20Mbps	AC3
some folders may not be opened.	*.mpg *.mpeg	PS	MPEG2	1920x1080	6~30	20Mbps	MPEG LPCM	
	<ul> <li>The maximum displayed number of files, including sub folders, in</li> </ul>	*.vob*		H. 264	1920x1080	6~30	20Mbps	AAC
	one folder of USB storage device is 2000.	*.3ap	*.3ap 3GPP	MPEG 1/2/4	1920x1080	6~30	20Mbps	MP3
	The media may not be playing smoothly when using the device	.ogp	JOHN	H.264	1920x1080	6~30	20Mbps	IVIFG
	lower than USB 2.0.			11001	1000 1000	0.00	0014	1

### Other Restrictions

• Video content will not play, or not play correctly, if there is an error in

• Sound or video may not work if the contents have a standard bit rate/

frame rate above the compatible Frame/sec listed in the table above. 

Playing selected video/music/photo files • If the Index Table is in error, the Seek (Jump) function is not supported.

1. Press the Yellow button in the file list to select the desired file. The menu may take longer to appear if the video's bit rate exceeds

10Mbps. Video content can not be played, if there are many contents in one file.

Supports up to H.264, Level 4.1 H.264 FMO / ASO / RS, VC1 SP / MP / AP L4 and AVCHD are not supported. MPEG4 SP, ASP: Below 1280 x 720: 60 frame max Above 1280 x 720: 30 frame max H.263 is not supported. GMC is not support.	Supports up to WMA7, 8, 9 STD, 9 PRO, and 10 PRO WMA 9 PRO and WMA 10 PRO support 5.1 channel. (LBR mode of WMA Pro is not supported.) WMA Lossless is not supported.

Video Decoder Audio Decoder

#### Music

1. Press the **◄/▶** buttons to select **Music**, then press the **ENTER** ■ button in the **Media Play** menu.

2. Press the **◄/▶/▲/▼** buttons to select the desired Music in the file

3. Press the ENTER → button or ► (Play) button. During music playback, you can search using the ◄/► buttons.
 ◄ (REW) and ► (FF) buttons do not function during play.

Only displays the files with MP3 file extensions. Other file extensions are not displayed, even if they are saved on the same USB device. If the sound is abnormal when playing MP3 files, adjust the Equalizer in the Sound menu. (An over-modulated MP3 file may

# cause a sound problem.)

### **Photos**

1. Press the ◀/▶ buttons to select Photos, then press the ENTER ☐ button in the Media Play men 2. Press the </bd>
✓/►/▲/▼ buttons to select the desired photo in the file

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 the slide show

- All files in the file list section will be displayed in the slide show. - During the slide show, files are displayed in order.

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

You can move to other file using the

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

#### Other Restrictions

CMYK and YCCK Color space JPEGs are not supported

#### Playing Multiple Files

Deselect All.

Category

Repeat Mode

Picture Size

Subtitle Settings

Audio Format

Start Slide Sho

Rotate

Information

Title

# 2. Repeat the above operation to select multiple files.

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

You can move the other file

You can play movie and music files

u can adjust the picture size to

can adjust the sound setting

titles. This function only wor

u can play the video with

f the subtitles are the same file

ou can select the digital audio

an start or stop a Slide Sho

u can select the slide show

ou can zoom into images in full

ou can see detailed information

You can rotate images in full

about the played file.

ame as the video.

ou can adjust the picture setting.

Media Play - Additional Functions

■ Videos/Music/Photos Play Option menus

When playing a file, press the TOOLS button.

provided with the wall mount items. Contact a technician for assistance when installing the wall mount bracket. Samsung Electronics is not - The  $\checkmark$  mark appears to the left of the selected files. responsible for any damage to the product or injury to yourself or others if you elect to install the wall mount on your own To cancel a selection, press the Yellow button again

# elect all selected files, press the TOOLS button and select

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

#### Install your wall mount on a solid wall perpendicular to the floor. When attaching to other building materials, please contact your nearest dealer ■ Playing the video/music/photo file group 1. While a file list is displayed, move to any file in desired group. If you install the TV on a ceiling or slanted wall, it may fall and result in

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

The wall mount kit is not supplied, but sold separately.

Wall Mount Kit Specifications (VESA)

• When purchasing our wall mount kit, a detailed installation manual 
To prevent the TV from falling

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

For detailed information on installing the wall mount, see the instructions

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. rews that are too long may cause damage to the inside of the

For wall mounts that do not comply with the VESA standard screw

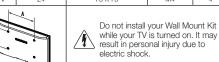
Do not fasten the screws too firmly. This may damage the product or cause the product to fall, leading to personal injury. Samsung is

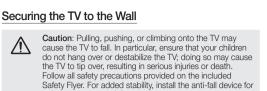
not liable for these kinds of accidents. Samsung is not liable for product damage or personal injury when

a non-VESA or non-specified wall mount is used or the consumer fails to follow the product installation instru

 Do not mount the TV at more than a 15 degree tilt. Always have two people mount the TV on a wall.

#### Other Information Product Family TV size in inches VESA screw hole specs (A \* B) in millimeters Screw Quantity Installing the Wall Mount Kit





safety purposes, as follows.

Since the necessary clamps, screws, and string are not supplied,

1. Drive the screws into the clamps and firmly fasten them onto the wall Make sure the screws are firmly fixed into the wall 2. Remove the screws from the back center of the TV, put the screws

o the clamps, and then fasten the screws onto the TV again

3. Connect the clamps fixed onto the TV and the clamps fixed onto the wall with a strong cable and then tie the string tightly.

specifications, the length of the screws may differ depending on Verify all connections are properly secured. Periodically check the connections for any sign of fatique or failure. If you have any doubt

about the security of your connections, contact a professional Install the TV close to the wall so that it does not fall.

 $^{igotimes}$  It is safe to connect the string so that the clamps fixed on the wall are equal to or lower than the clamps fixed on the TV. Until the string before moving the TV.

### Kensington Lock

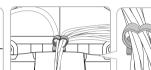
The Kensington Lock is not supplied by Samsung. It is a device used to physically fix the system when using it in a public place. Refer to the manual provided with the Kensington Lock for additional information on

Please find a "㎡" icon on the rear of the TV. The Kensington slot is beside the "♂" icon.

The position and color may differ depending on the model.

# Assembling the Cable manager





## **Troubleshooting**

If the TV seems to have a problem, first review this list of possible problems and solutions. If none of these troubleshooting tips apply, visit samsung,

Problem	Possible Solution
Flickering and Dimming	If your Samsung Television is flickering or dimming sporadically, you may need to disable some of its energy efficient features like the <b>Energy Saving</b> feature. If you follow below step with your remote, you can turn these features off or on.  • Energy Saving : MENU → Setup → Eco Solution → Energy Saving
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 or 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.
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/P) and so on. Go in to "Picture" on user Menu then try
	adjusting options mentioned above.
Jnwanted 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 you Sleep Timer is not accidentally set. The sleep timer allows you the comfort of falling asleep with the TV still on but, turns it off after a certain period of time so as not to waste energy.  Sleep Timer: MENU → Setup → Time → Sleep Timer If the Sleep Timer is not activated, you may have engaged the No Signal Power Off or Auto Power Off feature.  No Signal Power Off: MENU → Setup → Eco Solution → No Signal Power Off Auto Power Off: MENU → Setup → Eco Solution → Auto Power Off
Trouble Powering On	Before Turn on check red light on the right or left bottom of your TV. Press power on button on TV or remote and it will blink about 5 times before turning on.  If you find that you are having trouble powering on your Samsung television, there are a number of things to check 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 hav a cable or satellite box, your TV may appear to be off because the cable or satellite box is not outputting a signal. To test the signal output of your cable or satellite box, press the guide or info button on the cable or satellite box remote control. If the screen displays the guide or info data, the problem is caused by the box.
Stand Assembly	If you have any trouble to assemble the stand though you refer to "Install the Stand" mentioned at separate guide.
Cannot find channel	Re-run plug and play.
Poor picture	First, perform the <b>Picture Test</b> and to see if your TV is properly displaying the test image.  Go to MENU - <b>Support</b> - <b>Self Diagnosis</b> - <b>Picture Test</b> If the test image is properly displayed, the poor picture may be caused by the source or signal.
The TV image does not look as good as it did in the store.	If you have an analog cable/satellite box, upgrade to a digital set top box. Use HDMI or Component cables to deliver HD (hig definition) picture quality.  Cable/Satellite subscribers: Try HD channels from the channel line up.  Air/Cable Antenna connection: Try HD channels after performing Auto program.  Many HD channels are up scaled from SD(Standard Definition) contents.  Adjust the Cable/Set top box video output resolution to 1080i or 720p.
The picture is distorted: macroblock error, small block, dots, pixelization.	<ul> <li>Compression of video contents may cause picture distortion, especially on fast moving pictures such as sports and action movies.</li> <li>A weak signal can cause picture distortion. This is not a TV problem.</li> <li>Mobile phones used close to the TV (within 3.3ft) may cause noise in the picture on analog and digital channels.</li> </ul>
Color is wrong or missing.	If you're using a component connection, make sure the component cables are connected to the correct jacks. Incorrect or loose connections may cause color problems or a blank screen.
There is poor color or brightness.	Adjust the Picture options in the TV menu. (Go to Picture Mode / Color / Brightness / Sharpness) Adjust the Energy Saving option in the TV menu. (Go to MENU - Setup - Eco Solution - Energy Saving) Try resetting the picture to view the default picture setting. (Go to MENU - Picture - Picture Reset)
There is a dotted line on the edge of the	If the picture size is set to Screen Fit, change it to 16:9.

The picture is black and white. If you are using an AV composite input, connect the video cable (yellow) to the Green jack of component input 1 on the TV. • If connected to a cable box, please try to reset it. (Reconnect the AC cord and wait until the cable box reboots. It may take Set the output resolution of the cable box to 1080i or 720p. Sound Problem First of all, please perform the Sound Test to confirm that your TV audio is properly operating. (Go to MENU - Support - Self Diagnosis - Sound Test) If the audio is OK, the sound problem may caused by the source or signal. There is no sound or the sound is too low at | Please check the volume of the device (Cable/Sat Box, DVD, Blu-ray, etc.) connected to your TV. The picture is good but there is no sound.

 Reboot the connected device by reconnecting the device's power cable. The speakers are making an inappropriate • 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 The TV will not turn on Make sure the AC power cord is securely plugged into the wall outlet and the T 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. The TV turns off automatically. • Ensure the Sleep Timer is set to Off in the Time menu If your PC is connected to the TV, check your PC power settings Make sure the AC power cord is plugged in securely to the wall outlet and the TV. When you are watching TV connected to an antenna or cable connection, the TV will turn off after 10 - 15 minutes if there There is no picture/video · 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 TV's correct source by pressing the SOURCE button on the remote control. Reboot the connected device by reconnecting the device's power cable. RF(Cable/Antenna) Connection Make sure the coaxial cable is connected securely.
 Please try Auto Program to add available channels to the channel list.
go to MENU - Channel - Auto Program then select Auto and make sure the correct Cable TV signal type is set in the menu. There are 3 options. (STD, HRC and IRC) Verify the antenna is positioned correctly. No Caption on digital channels. • Check the Caption Setup menu. Try changing Caption Mode Service1 to CC1. The picture is distorted: macroblock, error.

• Compression of video contents may cause picture distortion. Especially on fast moving pictures such as sports and action small block, dots, pixelization. A weak signal can cause picture distortion. This is not a TV problem Others Purple/green rolling horizontal bars and buzzing noise from the TV speakers with 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.

This smell is normal and will dissipate over time.

The familiar defined added that the final	Clean the transmission window located on the top of the remote control. Try pointing the remote directly at the TV from 5–6 feet away.
The cable/set top box remote control does not turn the TV on or off, or adjust the volume.	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.
A " <b>Mode Not Supported</b> " message appears.	Check the supported resolution of the TV and adjust the external device's output resolution accordingly. Refer to resolution settings in this manual.
Caption on the TV menu is greyed out.	You cannot select Caption in the TV menu when watching content from a device connected via HDMI or Component.     Caption must be activated on the external device.

HD channels will have black bars on either side of the screen when displaying up scaled SD (4:3) contents.

Black bars on the Top & Bottom will be shown on movies that have aspect ratios different from your TV.

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

TV **Signal Strength** is unavailable in the **Self Diagnosis** Test menu. This function is only available for digital channels from an Antenna / RF / Coax connection TV is tilted to the right or left side. Remove the stand base from the TV and reassemble it The Channel menu is greyed out The Channel menu is only available when you select the TV source. If TV is in the **Store Demo** mode, it will reset audio and picture settings every 5 minutes. Please change from **Store Demo** mode to **Home Use** mode using the **Plug & Play** procedure. Press the SOURCE button to select TV mode, go to MENU **Setup**  $\rightarrow$  **Plug & Play**  $\rightarrow$  ENTER  $\Box$ Your settings are lost after 5 minutes or every time the TV is turned off. You have intermittent loss of audio or video. Check the cable connections and reconnect them Loss of audio or video can be caused by using overly rigid or thick cables. Make sure the cables are flexible enough for long term use. If mounting the TV to the wall, we recommend using cables with 90 degree connectors. You see small particles when you look closely at the edge of the frame of the TV. This is part of the product's design and is not a defect. POP (TV's internal banner ad) appears on Select **Home Use** under **Plug & Play** mode. For details, refer to **Plug & Play** (Initial Setup).

🦠 This TFT LED panel uses a panel consisting of sub pixels which require sophisticated technology to produce. However, there may be a few bright or

dark pixels on the screen. These pixels will have no impact on the performance of the product. Watch these troubleshooting on video at www.samsung.com/spsn.

Some functions and pictures shown in this manual are available on specific models only. Support → Downloads) by USB.

Storage and Maintenance

If you attached some stickers on the TV screen, it remains some debris after removing the sticker. Please clean it to watch TV. 🖎 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



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



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OPYRIGHT AND PERMISSION NOTICE

Clean the product with a soft cloth lampened with in a small amount of water. On not use a flammable liquid (e.g. benzene, thinners) or a cleaning agent.

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

o send inquiries and requests for questions regarding open sources, contact

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

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ronmental Considera 50°F to 104°F (10°C to 40°C) Operating Temperature 10% to 80%, non-condensing Operating Humidity -4°F to 113°F (-20°C to 45°C) Storage Temperature 5% to 95%, non-condensing Storage Humidity Model Name UN24H4000AF Display Resolution 1366 x 768 Screen Size 24" Class (Diagonal) (23.6" measured diagonally) 3W x 2 Output 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 22.1 x 15.1 x 6.4 inches (561.8 x 384.2 x 163.8 (mm Weight 8.5 lbs (3.9 kg) Without Stand

Design and specifications are subject to change without prior notice. This device is a Class B digital apparatus.

For information about your TV's power requirements 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/

9.0 lbs (4.1 kg)

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