# user manual

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 slidebars on hori- 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 Fo avoid this, vary the programming and images, and primarily display full screen moving images, not stationary patterns or dark bars. On LED mode 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

Subject to the requirements, conditions, exclusions and limitations of the original Subject to the requirements, continons, exclusions and imitations or 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



Turns the TV on and off. -

Adjusts the volume. -

4 | 5 | 6

7 8 9

MEDIA.P III SLEEP

RETURN EXIT

SAMSUNG

O PRE-CH

Press to directly access to channels. -

Displays the channel list on the screen. -

Quickly select frequently used functions.

P.SIZE: Lets you choose the picture size. \_

CC: Controls the caption decode

Program (SAP broadcast)

MTS: Press to choose stereo, mono or Separate Audio

Press to select additional channels (digital) being

select channel '54-3', press '54', then press '-' and '3'

### 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 of 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 Reduce brightness 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

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.

Installation with a stand. Installation with a wall-mount

Contact SAMSUNG WORLDWIDE  f you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care center.		
Country	CANADA	U.S.A
Address	Samsung Electronics Canada Inc., Customer Service 55 Standish Court Mississauga, Ontario L5R 4B2 Canada	Samsung Electronics America, Inc. 85 Challenger Road Ridgefield Park, NJ 07660
Customer Care Center 🕿	1-800-SAMSUNG (726-7864)	
Web Site	www.samsung.com/ca (English) www.samsung.com/ca_fr (French)	

Displays and selects the available video

Cuts off the sound temporarily

Automatically shuts off the TV at a preset time

Use these buttons in a specific feature

Changes channels.

on screen.

Installing batteries (Battery size: AAA)

© 2013 Samsung Electronics Co., Ltd. All rights reserved.

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

CAUTION

This symbol indicates that high voltage is present inside. It is dangerous to make any kind of contact with any internal part of this product.



Warning! Important Safety Instructions

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

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 TIMES.

## ☐ 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

All 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 🗸 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)

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 → TOOLS

Set each channel using the Channel List menu options. Option 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 watch frequently as Favorites.

■ 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

■ Channel Name Edit: (analog channels only) Assign your own

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

You can only select **Deselect All** when one or more channels ■ Auto Program: Scans for a channel automatically and stores in the

Programmed

## (in Channel List)

ou 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

■ Select All / Deselect All: You can select or deselect all channels in

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

Fine Tune

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 channel banner.

# Picture Menu

## Mode Tools, ☐

Select your preferred picture type When connecting a PC, you can only select Entertain and

■ **Dynamic**: 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.

### · Warranty Card / Regulatory Guide Owner's Instructions

### Accessories

Getting Started

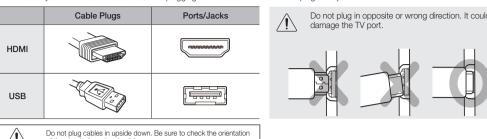
• Remote Control (AA59-00600A) & Batteries (AAA x 2)

 AC/DC Adapter (for 19", 22" models) • Cable Manager (for 28", 29" models)

### Input Cables (Sold Separately)

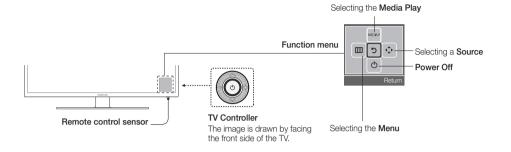
HDMI Composite (AV) HDMI-DVI Coaxial (RF)

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 rear left side of the TV, lets you control the TV without the remote control.



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)

Samsung MagicAngle for 19", 22" models

Off: Select when viewing from the front position.

Contrast, Brightness and Sharpness.

■ Dynamic Contrast: Adjusts the screen contrast.

■ Flesh Tone: Emphasize pink "flesh tone".

■ Gamma: Adjusts the primary color intensity.

Tone, Size, and HDMI Black Level.

16:9: Sets the picture to 16:9 wide mode.

Available in **Standard** mode only.

**Picture Options** 

most of the time.

■ Color Tone

■ Mode: Adjust screen viewing angle

Color / Tint (G/R)

Advanced Settings

(available in Standard / Movie mode)

the front.

Adjust screen viewing Angle to optimize screen quality according to your

below or above by setting the appropriate mode for each position you can obtain a similar picture quality as viewing the screen directly from

Lean Back Mode: Select when viewing from a slightly lower position.

■ Samsung MagicAngle: When viewing the screen at an angle from

Standing Mode: Select when viewing from the upper position.

When Samsung MagicAngle is set to Lean Back Mode or Standing Mode, Gamma is not available.

Backlight / Contrast / Brightness / Sharpness /

Your television has several setting options for picture quality control.

When connecting a PC, you can only make changes to **Backlight**,

Compared to previous models, new Samsung TVs have a more precise

When connecting a PC, you can only make changes to Gamma and

■ Black Tone: Selects the black level to adjust the screen depth

■ Color Space: Adjusts the range of colors available to create the

■ White Balance: Adjusts the color temperature for a more natural

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

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

R-Gain / G-Gain / B-Gain: Adiusts each color's (red, green, blue)

■ Motion Lighting: Reduce power consumption by brightness control

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 e 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')

### ■ TV / AV / Component / HDMI1 / HDMI2/DVI You can only choose external devices that are connected to the TV. In the **Source List**, connected inputs will be highlighted.

image retention (screen burn) which are not covered by the Screen Fit: (DTV) Displays the full image without any cut-off when

are inputted. HD (High Definition): 16:9 - 1080i/1080p (1920x1080), 720p

Settings can be adjusted and stored for each external device you

Picture Sizes available by Input Source:

### 16:9, Zoom1, Zoom2, 4:3 ATV, AV, Component (480i, 480p) DTV(1080i, 1080p), Component (1080i, 1080p), HDMI (720p, 1080i, 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

■ MPEG Noise Filter: Reduces MPEG noise to provide improved ■ HDMI Black Level: Selects the black level on the screen to adjust the

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

■ LED Clear Motion: Removes drag from fast scenes with a lot of

Resets your current picture mode to its default settings ■ Reset Picture Mode: Returns all picture values in the currently selected mode to the default settings.

■ Standard: Selects the normal sound mode. ■ Music: Emphasizes music over voices.

When connecting a PC, you can only make changes to the Color

■ Amplify: Increase the intensity of high-frequency sounds to allow a

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

date, request an upgrade.

• For the best picture and audio quality, connect digital devices using

may not display or a connection error may occur.

• PC/DVI AUDIO IN input is not supported.

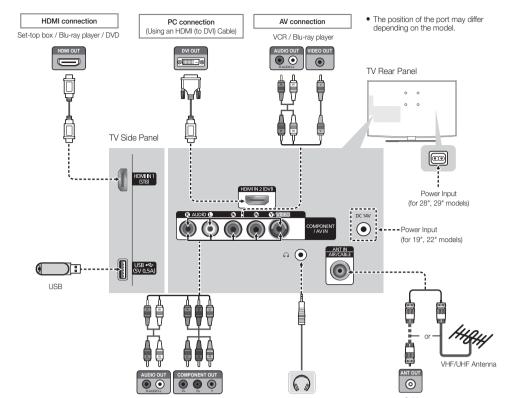
- an HDMI cable. • If you connect an external device to the TV that uses an older version
- Connecting through the HDMI cable may not be supported of HDMI, the video and audio may not work. If this occurs, ask the manufacturer of the device about the HDMI version and, if it is out of depending on the Po

2 (DVI) port.

- If an HDMI to DVI cable is connected to the HDMI IN 2 (DVI) port,

For an HDMI to DVI cable connection, you must use the HDMI II

- the audio does not work.
- For Set-top box connection using HDMI cable, we highly
- Be sure to purchase a certified HDMI cable. Otherwise, the picture recommend you to connect the HDMI IN 1 (STB) port



# Changing the Input Source

### Source List

Use to select TV or an external input source such as a DVD player / Bluay player / cable box / STB satellite receiver. 1. Press the SOURCE button.

Component connection

Blu-ray player / DVD

2. Select a desired external input source

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

When connecting a PC to the HDMI IN 2(DVI) port with HDMI to DVI cable, you should set the TV to DVI PC mode under Edit When connecting an AV devices to the HDMLIN 2(DVI) port with HDMI to DVI cable, you should set the TV to DVI mode under Edit

How to use Edit Name

# Information

Headphones connection

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,

Language

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

## Setting the Time

Digital-TV broadcasts are capable of simultaneous transmission of many The current time will appear every time you press the INFO button. ■ Clock: Setting the clock is for using various timer features of the TV. If you disconnect the power cord, you have to set the clock again.
Clock Mode: Set the current time manually or automatically.

Clock Set: Set the Month, Day, Year, Hour, Minute and am/pm Available only when Clock Mode is set to Manual. Time Zone: Select your time zone.

DST: (Daylight Saving Time) Switches the DST (Daylight Saving Time) function on or off. 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)

■ Sleep Timer TOOLS

To cancel the Sleep Timer, select Off Timer 1 / Timer 2 / Timer 3 Three different on / off timer settings can be made. You must set the

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

Inactivate. (To activate the timer with the setting you have chosen, set to **Activate**.) ovie through an 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. Music/Photo: Select the folder containing MP3/JPEG files on the

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 If there is no video signal, both the TV's speakers and the external lower than USB 2.0.

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

### Manual to set at you convenience. If you select Manual, you can set up the day you want to activate the timer.

USB device.

Game Mode

When connecting to a game console such as  $PlayStation^{TM}$  or  $Xbox^{TM}$ ,

• 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

you can enjoy a more realistic gaming experience by selecting the game Precautions and limitations for game mode

Game Mode is not available when the input source is set to TV.

[UF4000\_5000\_19-29-ZC]BN68-04797F-03ENG.indd 1

SAMSUNG ELECTRONICS NORTH AMERICAN LIMITED WARRANTY

Remote Control

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

### Display Modes (HDMI/DVI Input) 4 series: 1366 x 768@60Hz / 5 series: 1920 x 1080@60H

# NOTE

 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.

# **Channel List Option Menu**

### ■ Add / Delete: Delete or add a channel to display the channels you All deleted channels will be shown on the All Channels menu

# ■ Deselect All: Deselect all the selected channels.

# **Channel Mode**

(analog channels only) If the reception is clear, you do not have to fine tune the channel, as

To reset the fine-tuning, select Reset.

### Narm1 or Warm2 will be deactivated when the picture mode is ■ 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

4:3: Sets the picture to basic (4:3) mode

# Do not watch in 4:3 format for a long time. Traces of borders displayed on the left, right and center of the screen may cause

static and ghosting that may appear on the screen When the signal is weak, try other options until the best picture

Mode Tools,

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

(standard sound mode only)

Adjusts the level of specific bandwidth frequencies

■ Reset: Resets the equalizer to its default settings.

Zoom1: Use for moderate magnification. Zoom2: Use for a stronger magnification. Wide Fit: Enlarges the aspect ratio of the picture to fit the entire

# have connected to an input on the TV.

better listening experience for the hearing impaired. Equalizer

■ 100Hz / 300Hz / 1kHz / 3kHz / 10kHz (Bandwidth Adjustment):

### 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 wo-speaker playback system, including internal television speakers. It is fully compatible with all multichannel formats. **Preferred Language** (digital channels only)

udio tracks (for example, simultaneous translations of the program into

oreign languages). You can only select a language from among the ones being broadcasted Multi-Track Sound

### (analog channels only) ■ Mono: Choose for channels that are broadcasting in mono or if you are 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

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

sound output when the modulation signal is low. Speaker Select external receiver, you may hear a sound echo caused by the difference in decoding speed between the TV's speakers and the speakers attached to your audio receiver. If this occurs, set the TV to External Speaker.

When you set Speaker Select to External Speaker, the TV's

speakers are turned off. You will hear sound through the external speaker, the TVS speaker solly. When you set Speaker Select to TV Speaker

Because each broadcasting station has its own signal conditions, the

volume may fluctuate each time channel is changed. This feature lets you automatically adjust the volume of the desired channel by lowering

the sound output when the modulation signal is high or by raising the

both the TV's speakers and the external speakers are on. You will hear sound through both. When Speaker Select is set to External Speaker, the VOLUME and MUTE buttons will not operate and the sound settings will

### (digital channels only) Adds verbal description to the main audio to help the visually impaired

speakers will be mute

Visual Impaired

Sound Reset

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

# □ Other Features

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

2013-11-04 오전 9:41:15

### Program Rating Lock

The **Program Rating Lock** feature automatically locks out programs that are deemed inappropriate for children. The user must enter a PIN (personal identification number) before any of the Program Rating Lock rictions are set up or changed.

Program Rating Lock is not available in HDMI or Component

The default PIN number of a new TV set is "0-0-0-0". ■ Program Rating Lock: You can block rated TV Programs.

- TV Parental Guidelines: You can block TV programs depending on their rating. This function allows you to control what your children are ■ MPAA Rating: You can block movies depending on their MPAA
- rating. The Motion Picture Association of America (MPAA) has implemented a rating system that provides parents or guardians with advanced information on which films are appropriate for children. ■ Canadian English: You can block TV programs depending on their
- Canadian French: You can block TV programs depending on their
- Downloadable U.S. Rating: Parental restriction information can be
- No Signal Power Off: Sets how quickly the TV switches to standby ■ 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 ■ Auto Power Off: The TV will be automatically turned off when no user 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)

### Caption

(On-Screen Text Messages)

- Caption: You can switch the caption function on or off. If captions are not 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 may or may not work with digital channels.) Default / Service1~Service6 / CC1~CC4 / Text1~Text4: (digital
- channels only) The Digital Captions function works with digital Service1~6 may not be available in digital caption mode
- 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 Cyan. You can change the color of the letter. 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 caption. The default is Black. Foreground Opacity: This adjusts the opacity of text. Options include View this information when your TV does not work properly or when you Default, Transparent, Translucent, Solid and Flashing.
- Background Opacity: This adjusts the opacity of the caption background. Options include Default, Transparent, Translucent, Solid and Flashing.

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

When no sound is output from the TV because the volume has

Digital Caption Options are available only when Default and Service1~Service6 can be selected in Caption Mode.  $\ ^{\ }$  The Foreground and Background cannot be set to have the same

Set so that a melody plays when the TV is turned on or off.

been reduced to minimum with the VOL - butto

When the TV is turned off by Sleep Timer function.

Disabled when the PC is in power saving mode

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.

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

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

The PIN input screen appears before the setup screen

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

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

want to upgrade the software. You can find information regarding our call centers and how to download products and software.

■ Signal Strength: (digital channels only) An HD channel's recention

quality is either perfect or the channels are unavailable. Adjust your antenna to increase signal strength.

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

continues to occur, check the color pattern

■ Reset: Reset all settings to the factory defaults.

Melody

Eco Solution

The Melody does not play

button to turn on the screen.

node, if no picture is being received.

operation is received for 4 hours.

**Auto Protection Time** 

Self Diagnosis

Software Upgrade

Contact Samsung

**HD Connection Guide** 



### Connecting a USB Device

in Applications menu.

ENTER → button.

Media Play

- When no sound is output from the TV because the MUTE button
  - 2. Connect a USB device containing photo, music and/or movie files to the USB jack on the side of the TV. 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
- Energy Saving: This adjust the brightness of the TV in order to Applications, then press the ENTER button. reduce power consumption. If you select **Picture Off**, the screen is turned off, but the sound remains on. Press any button except volume 2. Press the ▲ or ▼ button to select Media Play (USB), then press the
  - 3. Press the ◀ or ▶ button to select an icon (Videos, Music, Photos, Settings), then press the ENTER 🗗 button.
  - It might not work properly with unlicensed multimedia files
  - Need-to-Know List before using Media Play (USB)
  - Supported file systems are FAT and NTFS. Certain types of USB Digital camera and audio devices may not. e compatible with this TV. 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 port. USB HDD is not supported.
  - Before connecting your device to the TV, please back up your files to prevent them from damage or loss of data. SAMSUNG is not responsible for any data file damage or data loss.
  - A USB device that requires high power (more than 0.5A) may not
  - Do not disconnect the USB device while it is loading. • The higher the resolution of the image, the longer it takes to
  - display on the screen. he maximum supported JPEG resolution is 15360 x 8640 pixels If a file is corrupted or the TV does not support the file type, the "Not Supported File Format" message appears.
  - The TV cannot play MP3 files with DRM that have been loaded from a for-pay site. Digital Rights Managemen (DRM) is a technology that supports the creation, distribution. and management of digital content in an integrated and comprehensive way, including protecting the rights and interests of content providers, preventing illegal copying of contents, and
  - managing billings and settlements. PTP device is not supported.

There is no picture/vide

The remote control does not work.

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

A "Mode Not Supported" message

Caption on the TV menu is greyed out

There is a plastic smell from the TV.

- 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 set in Auto Protection Time, the Screensaver will run.
- The power-saving mode of some external hard disk drives may be
- released automatically when your connect them to the TV If you use a USB extension cable, the TV may not recognize the USB device or may not be able to read the files on the device

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

- If a file you deleted from the PC is still found when you run Media
- Play, use the "Empty the Recycle Bin" function on the PC to permanently delete the file.
- Photos only supports sequential jpeg format. • The scene search and thumbnail functions are not supported in
- the Videos. 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
- 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

some folders may not be opened.

lower than USB 2.0.

- 1. Press the ◀/▶ buttons to select Videos, then press the ENTER 🗗 button in the Media Play menu.
- 2. Press the </bd>
  ✓/►/▲/▼ buttons to select the desired video in the file
- 3 Press the FNTER → button or ► (Play) button. The selected file is displayed on the top with its playing time - If video time information is unknown, playing time and the progress
- During video playback, you can search using the ◀/▶ buttons. In this mode, you can play movie clips contained in a game, but you cannot play the game itself.

# Supported Subtitle Formats

bar are not displayed.

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
SubStation Alpha	MKV	Text Format
Advanced SubStation Alpha	MKV	Text Format
SubRip	MKV	Text Format
MPEG-4 Timed text	MP4	Text Format

Suppor	ted	Video	Formats

Supported Video Formats						
File Extension	Container	Video Codec	Resolution	Frame rate (fps)	Bit rate (Mbps)	Audio Code
		Divx3.11/4.x/ 5.1/6.0	1920x1080	6~30	30Mbps	
*.mp4	MP4	H264	1920x1080	6~30	30Mbps	MP3 / ADPCN
		AVC	1920x1080	6~30	30Mbps	AAC
		MJPEG	640x480	6~30	10Mbps	1
	"AVI MKV"	Divx3.11/4.x/ 5.1/6.0	1920x1080	6~30	30Mbps	"MP3 AC3 /
"*.avi *.mkv"		MPEG4 SP/ ASP	1920x1080	6~30	30Mbps	LPCM ADPC
JIIIN		H264	1920x1080	6~30	30Mbps	/ DTS
		MJPEG	640x480	6~30	10Mbps	Core"
"*.asf *.wmv"	3.11/	Divx 3.11/4.x/ 5.1/6.0	1920x1080	6~30	30Mbps	"MP3 . AC3 / LPCM
	ASF	MPEG4 SP/ ASP	1920x1080	6~30	30Mbps	ADPCI / WMA
		H.264	1920×1080	6~30	30Mbps	/ WMA

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

# Other Restrictions

• CMYK and YCCK Color space JPEGs are not supported.

## Playing Multiple Files

- Playing selected video/music/photo files Press the Yellow button in the file list to select the desired file.
- 2. Repeat the above operation to select multiple files.
- The 

  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 and select
- Deselect All. Sound or video may not work if the contents have a standard bit rate/ 3. Press the TOOLS button, and then select Play Selected Contents.
- rame rate above the compatible Frame/sec listed in the table above. 

  Playing the video/music/photo file group • If the Index Table is in error, the Seek (Jump) function is not supported. 1. While a file list is displayed, move to any file in desired group. The menu may take longer to appear if the video's bit rate exceeds 2. Press the TOOLS button, and then select Play Folder.

### Media Play - Additional Functions Video content can not be played, if there are many contents in one file.

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

H.264 FMO / ASO / RS, VC1 SP / MP /	Supports up to WMA7, 8, 9 STD, 9 PBO, and 10 PBO	Category	Operation	Videos	Music	Photos
MPEG4 SP, ASP :	WMA 9 PRO and WMA 10 PRO support 5.1 channel. (LBR mode of WMA Pro is not supported.)	Title	You can move the other file directly.	~		
- Above 1280 x 720: 30 frame max		Repeat Mode	You can play movie and music files repeatedly.	~	<b>~</b>	
GMC is not support.	WMA Lossless is not supported.	Picture Size	You can adjust the picture size to your preference.	~		
Music		Picture Mode	You can adjust the picture setting.	~		~
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 supported.  GMC is not support.  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 list.  3. Press the ENTER ➡ button or ▶ (Play) button.  During music playback, you can search using the ◀/▶ buttons.  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 menu.  2. Press the ◀/▶ buttons to select the desired photo in the file list.  3. Press the ■/▶ buttons to select the desired photo in the file list.	sic than prose the ENTER [2]	Sound Mode	You can adjust the sound setting.	~	<b>✓</b>	~
	Subtitle Settings	You can play the video with Subtitles. This function only works if the subtitles are the same file name as the video.	~			
During music playback, you can search using the ◄/► buttons.		Audio Format	You can select the digital audio output format.	~		
MPEG4 SP, ASP:  Below 1280 x 720: 30 frame max  Above 1280 x 720: 30 frame max  H.263 is not supported.  GMC is not supported.  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 list.  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 menu.  2. Press the ◀/▶ buttons to select the desired photo in the file list.  3. Press the ENTER ➡ button or ▶ (Play) button.  NOTE	Audio Language	You can change the audio language if the video has more than one language.	~			
If the sound is abnormal when playing MP3 files, adjust the Equalizer in the Sound menu. (An over-modulated MP3 file may		Stop Slide Show / Start Slide Show	You can start or stop a Slide Show.			~
Photos		Slide Show Speed	You can select the slide show speed during the slide show.			~
button in the Media Play menu.	_	Background Music	You can set and select background music when watching a Slide Show.			~
list.	,	Zoom	You can zoom into images in full screen mode.			~
NOTE	•	Rotate	You can rotate images in full screen mode.			~
<ul> <li>vvnile a pnoto list is displayed, pres</li> </ul>	s the 🕒 (Play) / ENTER 🗗					

### Settings

Coming the Octup Menu
■ DivX® Video On Demand: Shows the registration code auth
for the TV. If you connect to the DivX web site and register wit
10-digit registration code, you can download the VOD activati

Installing the Wall Mount Kit

if you elect to install the wall mount on your ow

Wall Mount Kit Specifications (VESA)

evere personal iniury

screw specifications.

NOTE

The wall mount kit is not supplied, but sold separately

and all parts necessary for assembly are provided

Once you play it using Media Play, the registration is completed. For more information on DivX® VOD, visit "http://vod.divx.com". ■ Information: Select to view information on the connected device.

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

responsible for any damage to the product or injury to yourself or others

Install your wall mount on a solid wall perpendicular to the floor. When

attaching to other building materials, please contact your nearest deale If you install the TV on a ceiling or slanted wall, it may fall and result in

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

When purchasing our wall mount kit, a detailed installation manua

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

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

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

### To prevent the TV from falling Other Information

Since the necessary clamps, screws, and string are not supplied, please purchase these additionally. . Drive the screws into the clamps and firmly fasten them onto the wall.

Caution: Pulling, pushing, or climbing onto the TV may

the TV to tip over, resulting in serious injuries or death.

Follow all safety precautions provided on the included

cause the TV to fall. In particular, ensure that your children do not hang over or destabilize the TV; doing so may cause

Safety Flyer. For added stability, install the anti-fall device for

Make sure the screws are firmly fixed into the wall. 2. Remove the screws from the back center of the TV, put the screws

into 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 For detailed information on installing the wall mount, see the instructions wall with a strong cable and then tie the string tightly provided with the wall mount items. Contact a technician for assistance when installing the wall mount bracket. Samsung Electronics is not

Verify all connections are properly secured. Periodically check the connections for any sign of fatigue or failure. If you have any doubt about the security of your connections, contact a professional

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

safety purposes, as follows.

Securing the TV to the Wall

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. Untie 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 proper use.

Please find a "@" icon on the rear of the TV. The Kensington slot is beside the "R" icon. The position and color may differ depending on the model.

### Assembling the Cable manager

# for 28", 29" models



### Samsung is not liable for product damage or personal injury when Caution of the cover-iack

# 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.

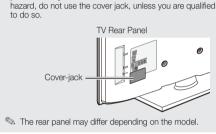
not liable for these kinds of accidents.

Product Family	TV size in inches	VESA screw hole specs (A * B) in millimeters	Standard Screw	Quant
	19~22	75 X 75	M4	
LED TV	26-29	100 X 100		
LED-TV	32-42	200 X 200	M8	4
	46~60	400 X 400	IVIO	
	A	D line to the	14/-1114	

while your TV is tamed result in personal injury due to

# for 4 series

**CAUTION**: The cover-jack is for use by qualified service personnel only. To reduce the risk of electric shock or fire



# **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. com, then click on Support, or call Samsung customer service at 1-800-SAMSUNG.

Problem	Possible Solution			
Flickering and Dimming	If your Samsung Television is flickering or dimming sporadically, you may need to disable some of its energy efficient features like the Energy Saving 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 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.  Ty 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 VI 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 in to "Picture" on user Menu then try adjusting options mentioned above.			
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 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 have a cable or satellite box, your TV may appear to be off because the cable or satellite box is not outputting a signal. To test the signal output of your cable or satellite box, press the guide or rinfo 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 Picture Test and to see if your TV is properly displaying the test image.  Go to MENU - Support - Self Diagnosis - Picture Test  If the test image is properly displayed, the poor picture may be caused by the source or signal.			
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.	Compression of video contents may cause picture distortion, especially on fast moving pictures such as sports and action movies.  A weak signal can cause picture distortion. This is not a TV problem.  Mobile phones used close to the TV (within 3.3ft) may cause noise in the picture on analog and digital channels.			
Color is wrong or missing.	If you're using a component connection, make sure the component cables are connected to the correct jacks. Incorrect or loose connections may cause color problems or a blank screen.			
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 screen.	If the picture size is set to Screen Fit, change it to 16:9.     Change the cable/satellite box resolution.			
The picture is black and white.	If you are using an AV composite input, connect the video cable (yellow) to the Green jack of component input 1 on the TV.			

nanging channels, the picture or is distorted or delayed.	<ul> <li>If connected to a cable box, please try to reset it. (Reconnect the AC cord and wait until the cable box reboots. It may tak up to 20 minutes)</li> </ul>
	Set the output resolution of the cable box to 1080i or 720p.

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 maximum volume.	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.	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 when you have a HDMI connected to your TV).     Reboot the connected device by reconnecting the device's power cable.
The speakers are making an inappropriate noise.	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 TV. Make sure the wall outlet is working. Try pressing the POWER button on the TV to make sure the problem is not the remote. If the TV turns on, refer to 'Remote control does not work' below.
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 is no signal.

	<ul> <li>Make sure your connected devices are powered on.</li> <li>Be sure to select the TV's correct source by pressing the SOURCE button on the remote control.</li> <li>Reboot the connected device by reconnecting the device's power cable.</li> </ul>
RF(Cable/Antenna) Connection	
The TV is not receiving all channels.	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.

	• Some charmers may not have caption data.	
The picture is distorted: macroblock, error, small block, dots, pixelization.	<ul> <li>Compression of video contents may cause picture distortion. Especially on fast moving pictures such as sports and action movies.</li> <li>A weak signal can cause picture distortion. This is not a TV problem.</li> </ul>	
Others		
Purple/green rolling horizontal bars and buzzing noise from the TV speakers with Component cable connection.	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.	
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.	

Adjust the nicture size antion on your external device or change the TV to full screen.

Replace the remote control batteries with correct polarity (+/-)

This smell is normal and will dissipate over time

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.

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

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

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

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.

• 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.

	Œ
	Premium So

License

DIVX.

DOLBY.

Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories. 5,956,674, 5,974,380, 5,978,762, 6,487,535, 6,226,616, 7,212,872, 7,003,467, 7,272,567, 7,668,723, 7,392,195, 7,930,184, 7,333,929 and 7,548,853. DTS, the Symbol,

7,519,274 DivX®, DivX Certified® and associated logos are trademarks of Rovi

Corporation or its subsidiaries and are used under license.

DivX Certified® to play DivX® video up to HD 1080p,



together are registered trademarks & DTS Studio Sound is a trademark of DTS, Inc.

### If TV is in the Store Demo mode, it will reset audio and picture settings every 30 minutes. Please change from Store Demo mode to Home Use mode using the Plug & Play procedure. Press the SOURCE button to select TV mode, go to MENU – Setup ightharpoonup Plug & Play ightharpoonup ENTER ightharpoonup3. 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 This is part of the product's design and is not a defect. closely at the edge of the frame of the TV 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.

This function is only available for digital channels from an Antenna / RF / Coax connection

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

Some functions and pictures shown in this manual are available on specific models only Nou can keep your TV as optimum condition to upgrade the latest firmware on web site (samsung.com → Support → Downloads) by USB.

move the stand base from the TV and reassemble it

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

# Storage and Maintenance

prevent scratches.

TV **Signal Strength** is unavailable in the **Self Diagnosis** Test menu.

TV is tilted to the right or left side.

The Channel menu is greyed out

H. 264 BP/ MP/HP

Other Restrictions

10Mbps.

the content or the container

Supports up to H.264, Level 4.1

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

1920x1080 6~30

MPEG1 1920x1080 24/25/30 30Mbps

MPEG2 1920x1080 24/25/30 30Mbps

MPEG4 SP/ ASP 1920x1080 6~30 30Mbps H.264 1920x1080 6~30 30Mbps

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

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

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

button on the remote control to start the slide sho

During the slide show, files are displayed in order.

You can move to other file using the ◀/▶ buttons

1920x1080 6~30 30Mbps

Audio Decoder

ports up to WMA7, 8, 9

30Mbps

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



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.

ABOUT DIVX VIDEO: DivX® is a digital video format created by DivX, LLC, a subsidiary of Rovi Corporation. This is an official DivX Certified® device that plays DivX msung via Email (oss.reguest@samsung.com) video. Visit divx. com for more information and software tools to convert your files into DivX videos. ABOUT DIVX VIDEO-ON-DEMAND: This DivX Certified® device must be ■ This product uses some software programs which are distributed under the Independent JPEG Group. egistered in order to play purchased DivX Video-on-Demand (VOD) movies. To obtain rour registration code, locate the DivX VOD section in your device setup menu. Go U License - ICU 1.8.1 and late to vod. divx.com for more information on how to complete your registration. Covered by one or more of the following U.S. patents: 7,295,673; 7,460,668; 7,515,710;

> and DTS and the Symbol together are registered trademarks & DTS Premium Sound is a trademark of DTS, Inc. ©2012 DTS, Inc. All Rights Reserved. Manufactured under a license from U.S. Patent No's: 6,285,767, 8,027,477, 5,319,713, 5,333,201, 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

©2012 DTS, Inc. All Rights Reserved. The terms HDMI and HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing LLC in the United States and

## Open Source License Notice

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

OPYRIGHT AND PERMISSION NOTICE

opyright (c) 1995-2008 International Business Machines Corporation and others Al nission is hereby granted, free of charge, to any person obtaining a copy of this

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation flies (he "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, provided that the above copyright notice(s) and this permission notice appear in supporting documentation. THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS, IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, REGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

cept as contained in this notice, the name of a copyright holder shall not be use Except as contained in this induce, the haller of a copyright holders and in the deser-in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization of the copyright holder.

All trademarks and registered trademarks mentioned herein are the property of their

# Specifications

Environmental Considerations Operating Temperature Operating Humidity Storage Temperature Storage Humidity	50°F to 104°F (10°C to 40°C) 10% to 80%, non-condensing -4°F to 113°F (-20°C to 45°C) 5% to 95%, non-condensing					
Model Name	UN19F4000	UN22F5000	UN28F4000	UN29F4000		
Display Resolution	1366 x 768	1920 x 1080	1366 x 768	1366 x 768		
Screen Size (Diagonal)	19" Class (18.5" measured diagonally)	22" Class (21.5" measured diagonally)	28" Class (27.5" measured diagonally)	29" Class (28.5" measured diagonally)		
Sound Output	3W x 2		5W	x 2		
Dimensions (W $\times$ H $\times$ D) Body With stand	17.8 X 11.2 X 1.9 inches (453.7 X 285.8 X 49.5 (mm)) 17.8 X 12.3 X 4.9 inches (453.7 X 314.2 X 124.9 (mm))	20.2 X 12.6 X 1.7 inches (513.1 X 321.5 X 43.8 (mm)) 20.2 X 14.4 X 6.6 inches (513.1 X 366.5 X 169.6 (mm))	25.3 X 15.3 X 1.9 inches (645.0 X 389.4 X 49.5 (mm)) 25.3 X 18.0 X 7.5 inches (645.0 X 457.7 X 191.7 (mm))	26.3 X 15.5 X 1.9 inches (668.6 X 394.7 X 49.5 (mm)) 26.3 X 18.4 X 7.5 inches (668.6 X 467.5 X 191.7 (mm))		
Weight Without Stand With Stand	5.5 lbs (2.5 kg) 5.7 lbs (2.6 kg)	5.7 lbs (2.6 kg) 6.3 lbs (2.9 kg)	9.2 lbs (4.2 kg) 10.3 lbs (4.7 kg)	9.4 lbs (4.3 kg) 10.5 lbs (4.8 kg)		

5.5 lbs (2.5 kg) 5.7 lbs (2.6 kg) 6.3 lbs (2.9 kg)

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

s For information about your TV's power requirements and more about power consumption, refer to the label attached to the product.

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

Typical power consumption is measured according to Energy Star Program requirements for televisions. recyclinadirect or call. (877) 278-0799

[UF4000\_5000\_19-29-ZC]BN68-04797F-03ENG.indd 2 2013-11-04 오전 9:41:17