### SAMSUNG

# LED TV user manual

#### Figures and illustrations in this User Manual are provided for reference only and may differ from actual product appearance. Product design and ifications may be changed without notic IMPORTANT WARRANTY INFORMATION

REGARDING TELEVISION FORMAT VIEWING See the warranty card for more information on warranty

Wide screen format LED Displays (with 16:9 aspect ratios the ratio of the screen width to height) are primarily designed to view wide screen format full-motion video. The images displayed on them should primarily be in the wide screen 16:9 ratio format or expanded to fill the screen, if your model offers this feature, with the images constantly in motion. Displaying stationary graphics and images on the 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 time 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 as a full screen picture.

Be careful about the television formats you select and the length of time you view them. Uneven LED aging as a result of format selection and use, as well as burned in images, are not covered by your Samsung limited warranty. • SAMSUNG ELECTRONICS NORTH AMERICAN LIMITED WARRANTY STATEMENT

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

The above described warranty repairs must be performed by a SAMSUNG Authorized Service Center. Along with this Statement,

# 

### Add to Favorite/Delete from Favorite: Lets you add channels to Channel Name Edit: Analog channels only. Lets you assign and delete channels from your Favorite Channels list.

- To add channels to the Favorite Channels list, follow these steps:
- ▲/▼ buttons and the Yellow Select button on your remote. 2. Press the TOOLS button on your remote. The Tools menu
- appears.
- ENTER 🕑 button.

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

- 1. Select one or more channels in the Favorite Channels list using the ▲/▼ buttons and the Yellow Select button on your remote
- 2. Press the TOOLS button on your remote. The Tools menu appears.
- 3. Select Delete from Favorite in the Tools menu, and then press the ENTER 🕑 button
- Timer Viewing: You can schedule a channel to be displayed automatically at a set time, even when you are watching another channel. You must set the current time first in the Time > Clock function to use Timer Viewing
- To schedule a channel, follow these steps
- 1. Select a channel in the Added Channels list using the  $\blacktriangle/\blacksquare$ buttons and the Yellow Select button on your remote
- 2. Press the TOOLS button on your remote. The Tools menu appears.
- 3. Select Timer Viewing in the Tools menu, and then press the ENTER + button. The Timer Viewing screen appears.

Timer Viewing							
Antenna	Channel	R	epeat				
DTV Air	6-1	(	Once				
Date Start Time							
01-01-201	6	12 : 01 a	am				
♦ Move							

- 4 Use the **√**/ buttons to move from entry field to entry field and the ▲/▼ buttons to change the entries. Where numbers are displayed, you can also enter numbers directly using the number keypad on your remote.
- Solution State select in the Date field becomes the start date for your scheduled viewing. For Everyday, the TV will turn on every day, at the time you selected, starting from that date. For Every Week, the TV will turn on every week. on the same day of the week as the start date you selected, at the time you selected, from that day on. If you select Once, the TV will turn on once, on the date and time you selected.
- 5. Press the ENTER I button on your remote when done.
- Only Added Channels can be scheduled.
- 🔊 Scheduled programs and channels are displayed in the Programmed List.
- Solution Not Select a digital channel, press the ► button to view the digital program list. If you highlight a program in the list, and then press the ENTER **(Schedule)** button, you set Timer Viewing for that program directly.

- 5 -

the Original Limited Warranty Statement and a dated Bill of Sale as Proof of Purchase must be presented to the Service Center. Fransportation to and from the Service Center of TVs 40" or smaller 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

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repair times, exchanges or replacements, accessories, options, upgrades, or consumables For the location of a SAMSUNG Authorized Service Center, please

call toll-free In the United States: 1-800-SAMSUNG (1-800-726-7864) 🔊 In Canada: 1-800-SAMSUNG

- Still image warning
- Avoid displaying still images (such as jpeg picture files) or still image elements (such as TV channel logos, TV shows or movies in panorama or 4:3 format, stock or news scroll bars, etc.) on the reen. The constant display of still pictures can cause ghosting or image burn-in (image retention) on the LED screen, which wil affect image quality. To reduce the risk of this effect, please follow mendations below
- Avoid displaving the same TV channel for long periods. Always try to display any image in full screen mode. Use the TV's Picture Options menu to select the optimal screen size.
- Reduce brightness and contrast values to the minimum required to achieve the desired picture quality. Values that exceed the inimum may speed up the burn-in process.

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

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- a name of up to five characters to an analog channel. Fo xample, Hist, Food, Golf, etc. This makes it easier to find and select a channel.
- 1. Select one or more channels in the All Channels list using the Select All: Select all the channels in the displayed channel list. Deselect All: Deselect all the selected displayed channels. 🔊 You can only select **Deselect All** when one or more channels are selected.
- 3. Select Add to Favorite in the Tools menu, and then press the 🛛 🖬 Auto Program: See Auto Program under Memorizing Channels. Programmed List (on the Channel List Screen)

The Programmed list displays the channels and programs you have scheduled for viewing using the Timer Viewing function. You can view, modify, or delete a show you have scheduled using the functions on the Programmed List screen Tools menu

### Programmed List Screen Tools Menu TOOLS

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

- To change the information, follow these steps:
- 1. Select the Programmed List icon on the left side of the
- Channel List screen, and then press the ENTER 🕑 button. 2. On the Programmed List screen, select the show or channel entry you want to change, and then press the TOOLS button. The Tools Menu appears.
- 3. Select Change Info, and then press the ENTER 🕑 button. The Timer Viewing screen appears.
- 4. Use the  $\triangleleft/\triangleright$  buttons to move from entry field to entry field and the  $\blacktriangle/\nabla$  buttons to change the entries. Where numbers are displayed, you can also enter numbers directly using the
- number keypad on your remote. 5. Press the ENTER 🕑 button when done.
- Cancel Schedules: Cancel a show or channel you have
- scheduled. To cancel a scheduled show or channel, follow these steps:
- 1. Select the Programmed List icon on the left side of the Channel List screen, and then press the ENTER 🛃 button
- 2. On the **Programmed** List screen, select the show or channel ntry you want to cancel, and then press the TOOLS button. The Tools Menu appears.
- 3. Select Cancel Schedules, and then press the ENTER button. The Cancel Schedules screen appears. 4. Select OK, and then press the ENTER 🚽 button
- Information: Display the information for a show or channel you have scheduled. You can also change the schedule Information 1. Select the **Programmed** List icon on the left side of the
- Channel List screen, and then press the ENTER 🚭 button. 2. On the **Programmed** List screen, select the show or channel entry you want information for, and then press the TOOLS
- button. The Tools Menu appears. 3. Select Information, and then press the ENTER 🗗 button. The Timer Viewing Info screen appears
- 4. Select Change Info, and then press the ENTER 🛃 button to change information, or select **Close**, and then press the
- ENTER 🛃 button to close the Information screen. Select All / Deselect All: You can select or deselect all channels
- in the channel list

### The On Screen Menus

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

Picture Options

Dynamic

fits the entire screen.

(1280x720) resolution.

right, up, and down.

1080p), HDMI (720p)

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

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

that may appear on the screen

picture for optimum quality.

If you selected Manual:

(30, 60, 90, 120, 150 and 180 minutes)

Timer1 / Timer2 / Timer3

You must set the clock first.

Inactivate field to Activate.

■ Volume: Set the desired loudness

To cancel the Sleep Timer. select Off

Sleep Timer TOOLS

Input Source

darker.

Picture Off

When the TV is connected to a PC, you can

the TVs 16:9 mode most of the time.

changes to the Color Tone. Size, and HDMI Black Level.

Color Tone (Cool / Standard / Warm): Cool makes the picture

bluer (cooler). Warm makes the picture redder (warmer).

Warm is deactivated when the picture mode is set to

Size: Set the size and aspect ratio of the picture on the screen

Your cable box or satellite receiver may have its own set of

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

Zoom1: Provides moderate magnification of the picture. Sides, top, and bottom are cut off.

Zoom2: Provides larger magnification of the picture. Sides, top, and bottom are cut off.

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

Do not watch your TV in the 4:3 format for a long time. The borders displayed on the left, right, and center of the

screen in 4:3 format may cause image retention (screen burn) which is not covered by the warranty.

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

your TV is inputting HDMI (720p) or Component HD signals.

HD (High Definition) has a 16:9 aspect ratio and 720p

Solution You can adjust and store settings for each external device

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

Custom: Magnifies or shrinks 16:9 pictures vertically and/or

Digital Clean View (Off / Low / Medium / High / Auto) : If the

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

the Digital Clean View feature to reduce any static and ghosting

🔊 When the signal is weak, try all the Digital Clean View

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

black level to adjust the screen depth. Low make blacks look

sense and process film signals from all sources and adjusts the

the screen's backlights when full brightness is not needed -

power consumption. The backlights are returned to full

The screen is turned off but the sound remains on. Press any button except the power key or volume button to turn on the

brightness when the TV displays bright scenes.

for example when the TV is displaying dark scenes - to reduce

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

Available only when Clock Mode is set to Manual

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

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

Activate/Inactivate fields for the On Time and Off Time. Use

the  $\triangleleft/\blacktriangleright$  buttons to move from field to field. Use the  $\blacktriangle/\blacktriangledown$ 

buttons to change the values in each field. To activate the

timer with the setting you have chosen, set the Activate/

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

setting is activated. You can set the TV to turn on a specific

channel or play back contents such as photo or audio files.

press the ENTER 🛃 button. The Contents screen appears.

buttons to change the values in each field.

to your TV before you can select USB.

the USB device:

device is 1000.

appears.

- 6 -

rated lower than USB 2.0.

re-appears.

to select the folder.

and the type or name of the device.

Use the 4/b buttons to move to the Contents field and then

Use the ◀/▶ buttons to move from field to field. Use the ▲/▼

- TV/USB: Select TV or USB. The USB device must be connected

- Antenna: Displays the current antenna source, Air or Cable

Channel: If you have selected TV, select the desired channel

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

select a folder containing MP3 (Music) or JPEG (Photo) files on

including sub folders, in one folder of a USB storage

The media may not play smoothly if you use a USB device

or the field under Photo, and then press the ENTER

button. The TV displays a single folder (the Root folder)

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

S If there are no folders on your device, press the

3. Use the  $\blacktriangle/\nabla$  buttons to highlight a folder that contains

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

Manual. If you select Manual, you can select the days you want

to activate the timer by using the  $\triangleleft/\triangleright$  buttons to highlight the

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

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

highlight it, and then press the ENTER 🕑 button.

screen, press either the ENTER → or RETURN button.

When you finished making all your selections on the Timer

Yellow select button to select the Root folder, and

then press the RETURN button. The Timer screen

music or photos, and then press the Yellow select button

1. Use the **◄**/**▶** buttons to move to the field under **Music** 

The maximum number of files the TV can display,

select. You can set three different on/off timer settings.

On Time / Off Time: Set the hour. minute. am/pm. and

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

enter the values directly. Use the </▶ buttons to move from

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

Available in ATV, DTV (interlace), AV, COMPONENT (480i /

options until the TV displays the best picture.

Available only in HDMI mode (RGB signals).

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

orizontally. A magnified or shrunk picture can be moved left,

Picture Size

Screen Fit

16:9, Wide Fit, 4:3,

16:9, Zoom1, Zoom2, 4:3

4:3: Sets the picture to the old, 4:3 format and puts black or

gray borders on the right and left of the picture.

available by Input Source are listed below:

16:9: Sets the picture to the 16:9 wide screen format

### The Main menu has seven primary categories:

- Picture Input Sound Application
- Channel • Support Setup

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

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

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

### Picture Menu

### Mode Tools 7

Select your preferred picture mode.

- 🗞 When your TV is connected to a PC, you can only select Entertain and Standard. Dynamic: Brightens the screen. Suitable for a bright room.
- Standard: Suitable for normal room brightnes Movie: Darkens the screen, making it less glary. Suitable for
- watching movies in a darkened room. Entertain: Sharpens the picture. Suitable for games.
- Only available when the TV is connected to a PC.
- Backlight / Contrast / Brightness / Sharpness / Color / Tint (G/R)
- Backlight: Adjusts the brightness of the screen by adjusting the brightness of the individual pixels.
- Contrast: Increases or decreases the contrast between dark and Film Mode (Off / Auto1 / Auto2): Sets the TV to automatically light areas of the picture.
- Brightness: Adjusts the brightness of the screen. Not as effective as Backlight
- Sharpness: Sharpens or dulls the edges of objects
- Color: Adjusts the color saturation. The higher the Color setting, Motion Lighting (Off / On): When on, the TV automatically dims the more intense the color. Low settings remove color and the
- picture becomes black, white, and gray. Tint (G/R): Adjusts the amount of green and red in the picture. As you increase the amount of green, the amount of red
- decreases and vice versa. Nhen the TV is connected to a PC, you can only make changes to Backlight, Contrast, Brightness, and Sharpness.

### Other Channel Menu Functions

Channel Mode (Added Channels/Favorite Channels)

Lets you select the channel list displayed when you press the ∧CH∨ (Channel) button on your remote. For example, if you select Favorite Channels, you will only see Favorite channels when you press the **ACH** button

### 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.

- Select the channel, and then select Fine Tune.
- 🗞 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.
- So To reset fine-tuning, select the channel, select Fine Tune, and then select Reset on the Fine Tune screen.

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

🗞 Choose between English, Español, and Français

The time you set will appear when you press the INFO

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

Solution Set the power cord, you have to set the set the set the power cord, you have to set the s

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

The TV will automatically download the correct time from a

Select Time Zone, and then press the ENTER + button

• Select DST (Daylight Savings Time), and then press

ENTER . Select On if you want to turn the DST

DST adjustment. Press ENTER 🖼 when done.

when the Clock Mode is set to Auto.

Solution The DST and Time Zone functions are only available

Use the▲/▼ buttons to select your **Time Zone**, and then

adjustment on and off manually. Select Off to turn off the

instructions, see your Quick Start Guide.

### Setup Menu Plug & Play

Language

of the TV.

clock again

ENTER 🛃 again.

digital channel

If you selected Auto:

press ENTER

To set the clock, follow these steps:

Select Setup >Time > Clock

Set the menu language.

Setting the Time

### Picture Reset

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

### Sound Menu

Equalizer

sneaker

Auto Volume

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.

Available in Standard sound mode only. Balance L/R: Adjusts the balance between the right and left

100Hz / 300Hz / 1kHz / 3kHz / 10kHz (Bandwidth Adjustment) Adjusts the loudness of specific bandwidth frequencies. Reset: Resets the equalizer to its default settings.

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

#### Digital channels only

Digital-TV broadcasts can transmit many audio tracks simultaneously (for example, simultaneous translations of a program into foreign languages).

🔊 You can only select a language from among the ones being

#### Multi-Track Sound (MTS) Analog channels only.

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

■ SAP: Select to listen to the Separate Audio Program, which is usually a foreign-language translation.

🔊 Depending on the program being broadcast, you can listen to Mono, Stereo or SAP.

Visually Impaired (diaital channels only Adds a verbal description to the main audio to help the visually

impaired.

### Dolby Digital Comp

### Sets Dolby Digital compression mode

HDMI Audio Format You can select the HDMI Audio format. The available HDMI Audio format may differ depending on the input source

### Sound Reset

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

### Channel Menu

### Memorizing Channels

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

#### Antenna (Air / Cable)

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

Selecting the signal source using the Antenna function also determines the signal source the TV is tuned to. For example, if you receive your TV signal over the air, and you select Cable, you will see only snow. You must select Air to see a picture.

### Auto Program

The Auto Program function memorizes all channels that are vailable over the air or through your cable system and adds them to the Channel List. If you are using a cable or satellite box, you do not need to run the Auto Program function

To start Auto Program, follow these steps:

1. Push MENU  $\square \rightarrow$  Channel  $\rightarrow$  Auto Program  $\rightarrow$  ENTER  $\square$  on your remote. The Antenna Source screen appears. 2. On the Antenna Source screen, select the source of your TV signal.

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

Cable If your TV is connected to a cable outlet, choose Cable, and then

press ENTER . Go to Step 3. Auto

If you choose Auto, and then press ENTER, the TV will

- automatically select the correct Antenna source. Go to Step 3. 3. On the Cable Type screen, use the  $\triangleleft/\triangleright/\blacktriangle/\lor$  buttons to select the type of digital and analog cable systems you have: STD, HRC, or IRC Most systems are STD (Standard). When done, select Start, and then press ENTER . The TV will start memorizing
- Channel memorization can take up to 45 minutes
- depending on your cable system Solution Memorized channels are added to the Added Channels ist. These are the channels you will see when you use the Channel buttons on your remote.

### Clear Scrambled Channel

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

- Section 2018 S Channel
- Solution This function is only available in Cable mode

#### Managing Channels

#### Channel List

Eco Solution

received.

detected for 4 hours.

Auto Protection Time

Input Menu

1 Press the SOURCE button

How to use Edit Name

2. Select a desired external input source.

TV / AV / Component / HDMI1 / HDMI2/DVI

Source List

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



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

Energy Saving (Off / Low / Medium / High): Lets you adjust the

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

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

🔊 Disabled when an attached PC is in power saving mode.

the TV will automatically turn off when no user operation is

■ Auto Power Off (Off / On): When Auto Power Off is set to On,

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

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

prevent the formation of ghost images on the screen

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

Use to select TV or other external input sources such as DVD / Blu-

ay players / cable box / STB satellite receiver connected to the TV.

You can only choose external devices that are connected to the

TV. In the Source List, connected inputs are highlighted.

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

making it easier to select a source. To access Edit Name, enter the Input menu, and then select Edit Name. Select the

name of the input jack it is connected to. For example, if

If you have connected a PC to the HDMI IN 2 (DVI) port with

🛸 If you have connected a PC to the HDMI IN 2 (DVI) port with

 $\circledast$  If you have connected an AV device to the HDMI IN 2 (DVI)

2. Connect a USB device containing photo, music, and/or movie

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

an HDMI to DVI cable, you should select DVI PC mode in Edit

port with an HDMI to DVI cable, you should select DVI mode

MEDIA.P

an HDMI cable, you should select PC mode in Edit Name.

name of the device from the drop down next to the

ray player from the drop down next to HDMI 2.

your Blu-ray player is connected to HDMI 2, select Blu-

brightness of the TV to reduce power consumption

## Other Features

### Voice Guide (On/Off)

You can activate voice guides that describe the menu options aloud to aid the visually impaired.

- Voice Guide: Enable or disable the Voice Guide feature. Voice Guid
- is provided in the current language ■ Volume: Set the volume of the voice guide
- Pitch: Set the pitch of the voice guide.

### ■ Speed: Set the speed of the voice guide

- Game Mode (On/Off)
- When you connect a game console such as a PlayStation<sup>™</sup> or Xbox<sup>™</sup> to your TV, you can enjoy a more realistic gaming experience by turning on the Game Mode function.
- Precautions and limitations for game mode:

 Before you disconnect the game console and connect another external device, set Game Mode to Off in the setup menu. If you display the TV menu in Game Mode, the screen shakes slight Same Mode is not available when the input source is set to TV. After connecting the game console, set Game Mode to On. You may notice slightly reduced picture quality.

### Program Rating Lock

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

Sector Program Rating Lock is not available in HDMI or Component mode. The default PIN number of a new TV set is "0-0-0". You can set your own PIN using the Change PIN function.

When you access the Program Rating Lock Menu functions for the first time, the PIN input screen appears. Enter 0-0-0-0. The PIN screen closes and the Program Rating Lock Menu appears. Every time you access the Program Rating Lock functions, the PIN screen will appear and you must enter a PIN.

When the Rating Lock screen appears, select Program Rating Lock, and then press ENTER . Select On, and then press the ENTER key again. Depending on what type of programs or movies you want to block, select one of the options on the screen, and then press the ENTER button. The options are listed below:

TV Parental Guidelines: You can block TV programs based on their ratings. This function allows you to control what your children are watching.

MPAA Rating: You can block movies based on their MPAA ratings. The Motion Picture Association of America (MPAA) has implemented a rating system that provides parents or guardians with advanced information on which films are appropriate for children.

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

French Canadian ratings Downloadable U.S. Rating: You can use parental restriction

information while watching DTV channels.

Locking/Blocking Programs or Movies

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

To lock/block movies or shows with certain ratings and/or kinds of content, click the square next to the rating and/or under the kind of content. A lock appears. To unlock/unblock, click the square again. When you click a low rating, all the ratings above it will also display locks. You can also Allow All or Lock All. When done, press the RETURN button on your remote

Change PIN: Select Change PIN and the Change PIN screen appears. Choose any 4 digits for your PIN, and then enter them in the Enter New PIN fields. Re-enter the same 4 digits in the Confirm New PIN fields. 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)

Caption (On-Screen Text Dialogue)

■ Caption: You can switch the caption function on or off. If

captions are not available, they will not be displayed on the 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 is Standard. Font Style: Options include Default and Styles 0 to 7. The default is Style 0.

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

Background Color: Options include Default, White, Black, Red, Green. Blue. Yellow. Magenta, and Cyan. You can change the background color of the captions. The default is Black. Foreground Opacity: This adjusts the opacity of text. Options nclude 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 Size, Font Style, Foreground

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

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

### Boot Logo

Enable or disable the display of the Samsung logo when you turn on the TV.

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

1. Turn on your TV.

appears

in Edit Name.

Application Menu

USB Mass Storage Class (MSC) device.

Connecting a USB Device

Enjoy photos, music, and/or movie files saved on a

- 🥵 All Channels: Shows all currently available channels including se you deleted from the Added Channels list.
- Added Channels: Shows all Added Channels. These are the
- channels that appear when you press the CH button. Favorite Channels: Shows all favorite channels.
- Programmed: Shows all channels and programs currently

Channel List or the Channel List functions

A selected channel

A Favorite channel

A reserved program.

lcons

•

Θ

ŏ

press the TOOLS button.

Added Channels list

appears.

appears.

All Channels list.

steps:

Display Icons Used in the Channel List Screens

- scheduled using Timer Viewing. 🗞 Remote control buttons active on the Channel List screen. • Green (Zoom): Enlarges or shrinks a channel numbe
- Yellow (Select): Move the cursor to a channel. Press the Yellow button to select the channel. A ✓ mark appears. Repeat to select additional channels. Then, open the Tools menu and apply function to the channels you selected. I (Tools): Displays the Channel List Tools menu (The Tools)
- nenus may differ depending on the situation. 🔊 If you use a cable box or satellite box, you cannot use the

A program currently being broadcast.

The Channel List Tools menu contains most of the functions you can

List screens. To view, select a list screen, select a channel, and then

use on the All Channels, Added Channels, and Favorite Channels

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

To delete channels from the Added Channels list, follow these

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

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

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

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

🛸 A gray-colored channel indicates the channel has been

The Add menu option only appears for deleted channels.

deleted from the Added Channels list.

Using the Media Play Menu

To open Media Play in the Menu, follow these steps:

Press the MENU button. Then, press the  $\blacktriangle$  or  $\checkmark$  button to select **Applications** on the left, and then press the ENTER  $\blacksquare$  button.

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

Media Play might not work properly with unlicensed multimedia files.

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

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

Before connecting your device to the TV, please back up your

files to prevent file damage or loss of data. SAMSUNG is not

• A USB device that requires high power (more than 0.5A) may not

sible for any data file damage or data loss

The higher the resolution of the image, the longer it takes to display on the screen.

The maximum supported JPEG resolution is 15360 x 8640 pixels

• If a file is corrupted or the TV does not support the file type, the

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 comprehensive way, including protecting the rights and interests of content providers, preventing illegal copying of

• Do not disconnect the USB device while it is loading.

"Not Supported File Format" message appears.

The TV cannot play MP3 files with DRM that have been

contents, and managing billing and settlements.

If an over-power warning message is displayed while you

• If the TV has no input during the time period set in Auto Protection Time, the Screen saver will run.

are connecting or using a USB device, the device may not be recognized or may malfunction.

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

• The Videos option does not support the scene search and

• If the number of files and folders saved on a USB storage device

is over approximately 4000, the files and folders may not appear

• The maximum displayed number of files, including sub folders, in

• The media may not play smoothly if you use a USB device rated

Photos only supports the sequential jpeg format.

• PTP (Pier to Pier) devices are not supported.

permanently delete the file.

and some folders may not open.

one folder of a USB storage device is 1000

thumbnail functions.

lower than USB 2.0.

Media Play only supports USB Mass Storage Class (MSC)

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

Read the list below before using Media Play (USB)

• The file system supports FAT16, FAT32, and NTFS.

port. USB HDD is not supported.

be supported.

📰 🗧 USB 📃 Change Dev

All deleted channels will be shown on the All Channels list

You add channels back to the Added Channels list on the

1. Select one or more channels in the Added Channels list using

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

Select one or more channels in the All Channels list using the

▲/▼ buttons and the Yellow Select button on your remote.

the  $\blacktriangle/\nabla$  buttons and the Yellow Select button on your remote.

Meaning

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

Videos, and then press the ENTER 🗗 button 2. Press the  $\langle \rangle / A / \nabla$  buttons to select a video in the file list.

- 3. Press the ENTER button or ► (Play) button The file name is displayed on the top of the screen with
- the playing time. - If video time information is unknown, playing time and
- the progress bar are not displayed.
- During video playback, you can search using the ◀ and ► buttons.
- 🛸 In this mode, you can play movie clips contained in a game, but you cannot play the game itself.

### • Supported Subtitle Formats

Name	File extension	QCELP and
MPEG-4 timed text	.ttxt	Vorbis is su
SAMI	.smi	Dolby Digi
SubRip	.srt	The DTS LE
SubViewer	.sub	containers
Micro DVD	.sub or .txt	
SubStation Alpha	.SSa	Music
Advanced SubStation Alpha	.855	

-	Internal		
	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

Trouble Powering On

File Extension	Container	Video Codec	Resolution	Frame rate(fps)	Bit rate (Mbps)	Audio Codec
*.avi		Motion JPEG	640x480		8	
*.mkv *.asf		H.264 BP/ MP/HP				Dolby Digital
*.wmv *.mp4	AVI MKV	H. 264 BP / MP / HP				LPCM ADPCM
*.mov *.3gp	ASF MP4	Divx 3.11 / 4 / 5 / 6		MAX 30	30	(IMA, MS) AAC
*.3gpp *.mpg	3GP MOV	MPEG4 SP/ ASP	1920x1080			HE-AAC WMA
*.mpeg *.ts *.tp	FLV VRO VOB	Window Media Video v9(VC1)	172001000		50	Dolby Digital Plus MPEG(MP3)
*.trp *.mov	PS TS	MPEG2	_			DTS (Core , LBR)
*.flv *.divx *.dat		MPEG1				G.711(A- Law, μ-Law)
*.webm	WebM	VP8	1920x1080	6~30	20	Vorbis

Other Restrictions	
• Codecs may not function properly if there is a problem with the	

- content Video content will not play or will not play correctly if there is an
- error in the content or contained
- Sound or video may not work if they have bit rates/frame rates above the TV's compatibility ratings • If the Index Table contains an error, the Seek (Jump) function
- will not work.
- When the TV is playing video over a network connection, the video may not play smoothly because of data transmission speeds.
- Some USB/digital camera devices may not be compatible with
- When the TV is playing a video at a bit rate of 10 Mbps or higher, the menu screens may be displayed slowly.
- Video Decoder
- Supports up to H.264, Level 4.1 H.264 FMO / ASO / RS, VC1 / AP L4 are not supported.
- GMC 2 or above is not supported
- Audio Decoder
- WMA 10 Pro supports up to 5.1 channels. Supports up to the M2 profile. WMA lossless audio is not supported.
- QCELP and AMR NB/WB are not supported.
- Vorbis is supported for up to 2 channels.
- Dolby Digital Plus is supported for up to 5.1 channels. The DTS LBR codec is only available for MKV / MP4 /TS
- Music 🕑 Pause 🜗 Jump 🞜 Tools 🏷 Re

Before you turn the TV on, find the red light on the right or left bottom of your TV. Press the power on button on

- 1. In the Media Play menu, press the ◀ or ► button to select Music, and then press the ENTER 🛃 button. 2. Press the  $\langle / \rangle / \langle / \rangle$  buttons to select the desired Music in the
- file list. 3. Press the ENTER button or ▶ (Play) button.
- Solution State button. Section 4 (REW) and ► (FF) buttons do not function during
- ⓑ Media Play only displays files with an MP3 or PCM file

extension. Other file extensions are not displayed, even if they are saved on the same USB device. 🔊 If the sound is abnormal when the TV plays MP3 files, adjust the Equalizer in the Sound menu. (An over-modulated MP3 file may cause a sound problem.)



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

- Photos, then press the ENTER 🕑 button 2. Press the  $\langle \rangle / A / \nabla$  buttons to select a photo in the file list.
- 🔊 NOTE • While a photo list is displayed, press the ► (Play) / ENTER
- button on the remote control to start a slide show • All files in the file list section will be displayed in the slide
- During the slide show, files are displayed in order During the slide show, you can adjust the slide show speed
- ng (🔄) (REW) or (🕨) (FF) buttor
- Media Play can play Music files automatically during a Slide Show if Background Music is set to On.
- 🗞 You cannot change the Mode in Background Music until the Background Music file has finished loading.
- Supported Photo Formats Image Photo
- Resolution Base-line 15360 x 8640 JPEG 1024 x 768 Progressive

### Other Restrictions

• CMYK, YCCK Color space JPEG are not supported.

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

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

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

When playing a file, press the TOOLS button. Category Operation Videos Music Photos You can select another video file Title  $\checkmark$ Repeat Mode You can play movie and music  $\checkmark$ 1 I can adjust the picture size t Picture Size 1 You can adjust the picture Picture Mode  $\checkmark$ Sound Mode can adjust the sound settin  $\checkmark$  $\checkmark$ u can play the video with btitles. This function only Settings works if the subtitles have the same file name as the video. u can select the digital audio Audio Format ou can change the audio nguage if the video has more Language than one language. Stop Slide can start or stop a Slide tart Slide Show Slide Show You can select the slide show speed during the slide show.  $\checkmark$ Speed can set and select Background Music  $\checkmark$ hing a Slide Show You can zoom into images in fu Zoom  $\checkmark$ en mode. I can rotate images in full Rotate  $\checkmark$ You can see detailed information about the played file.  $\checkmark$ 

## Settings

#### Using the Setup Menu

Information

DivX® Video On Demand: Shows the registration code authorized for the TV. If you connect to the DivX web site and register with the 10-digit registration code, you can download the VOD activation file. Once you play it using Media Play, the registration is completed. Sor more information on DivX<sup>®</sup> VOD, visit "http://vod.

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

## 

### This mode provides optimized conditions for watching soccer and

other sports. • A (Zoom): Pauses playback and divides the picture into 9 parts. Select a part to zoom it in.

When **Sports Mode** is **On**, the picture and sound modes are set to Stadium automatically

 $\checkmark$ 

 $\circledast$  If you turn the TV off while Sports Mode is on, Sports Mode is turned off.

the TV or remote and the light should blink about 5 times before the TV turns on If you find that you are having trouble powering on your Samsung television, there are a number of things to check re 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 ress the power button, your PC is in sleep mode. To take your PC out of sleep mode, press a key on your keyboard or move the mouse. Then try turning your TV on. If you're sure your power cord, remote control, and PC are functioning properly, you may be having a cable issue. If you have a cable or satellite box, your TV may appear to be off because the cable or satellite box is not outputting a signal. To test the signal output of your cable or satellite box, press the guide or info button on the cable or satellite box remote control. If the screen displays the guide or info data, the problem is caused by the box. Stand Assembly If you have any trouble assembling the stand, refer to "Install the Stand" in the Start Up or Stand Installation Cannot find a channel • Re-run Plug & Play or run Auto Program. (go to MENU - Channel - Auto Program) Poor Picture First, perform the Picture Test and to see if your TV is displaying the test image properly. Go to MENU - Support - Self Diagnosis - Picture Test If the test image is properly displayed, the poor picture may be caused by the source or signal. If you have an analog cable/satellite box, upgrade to a digital set top box. Use HDMI or Component cables to
deliver HD (high definition) picture quality. The TV image does not look as good as it did in the store. Cable/Satellite subscribers: Try HD channels from the channel line up. Air/Cable Antenna connection: Try HD channels after running Auto Program. 🔊 Many HD channels broadcast up scaled SD (Standard Definition) content. The picture quality of up scaled SD content is low. Adjust the Cable/Set top box video output resolution to 1080i or 720p. The picture is distorted has macroblock Compression of video contents may cause picture distortion, especially on fast moving pictures such as those in error, small block, dots, pixelization. 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. • If you're using a component connection, make sure the component cables are connected to the correct iacks. The color is wrong or missing prrect 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 the default picture settings. (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 If you are using an AV composite input, connect the video cable (yellow) to the Green jack of Component Input The picture is black and white 1 on the TV. When changing channels, the picture • If the TV is connected to a cable box, reset the cable box. (Disconnect and then reconnect the box's AC cord, and then wait until the cable box reboots. It may take up to 20 minutes.) freezes or is distorted or delayed. Set the output resolution of the cable box to 1080i or 720p. Perform the Sound Test to confirm that your TV audio is properly operating. Sound Problems (go to MENU - Support - Self Diagnosis - Sound Test) If the audio is OK, the sound problem may be caused by the source or signal. There is no sound or the sound is too Check the volume of the device (Cable/Sat Box, DVD, Blu-ray, etc.) connected to your TV The picture is good, but there is no • If you are using an external device, check the device's audio output option Ex. you may need to change your sound. cable box's audio option to HDMI if the box is connected to your TV using an HDMI cable. Reboot the connected device by reconnecting the device's power cable. The speakers are making ar Check the cable connections. Make sure a video cable is not connected to an audio input inappropriate noise. · 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 securely into the wall outlet and the TV.

There is no picture/video.	<ul> <li>Check the cable connections. (Remove and reconnect all cables connected to the TV and external devices).</li> <li>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.</li> </ul>
	<ul> <li>Make sure your connected devices are powered on.</li> </ul>
	<ul> <li>Be sure to select the correct input source by pressing the SOURCE button on the remote control.</li> <li>Reboot the connected device by unplugging and then reconnecting the device's power cable.</li> </ul>
RF (Cable/Antenna) Connection	<ul> <li>Rebote the connected device by unpragging and their reconnecting the device 5 power code.</li> </ul>
The TV is not receiving all channels.	Make sure the coaxial cable is connected securely.
nie i v is net receiving de chamed.	<ul> <li>Run Auto Program to add available channels to the channel list.</li> <li>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)</li> <li>Verify the antenna is positioned correctly.</li> </ul>
No Caption on digital channels.	Check the Caption Setup menu. Try changing Caption Mode Service1 to CC1.     Some channels 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 those in 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.	<ul> <li>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.</li> </ul>
The picture will not display in full screen.	<ul> <li>HD channels will have black bars on either side of the screen when displaying up scaled SD (4:3) contents.</li> <li>Black bars on the top and bottom appear when movies that have aspect ratios different from your TV play on the TV.</li> </ul>
	Adjust the picture size option on your external device or change the TV to full screen.
The remote control does not work.	<ul> <li>Replace the remote control's batteries. Make sure you insert them with the polarity (+/-) correct.</li> <li>Clean the transmission window located on the top of the remote control.</li> <li>Try pointing the remote directly at the TV from 5~6 feet away.</li> </ul>
The cable/set top box remote control does not turn the TV on or off, or adjust the volume.	<ul> <li>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.</li> </ul>
A " <b>Mode Not Supported</b> " message appears.	<ul> <li>Check the supported resolution of the TV and adjust the external device's output resolution accordingly. Refer to resolution settings in this manual.</li> </ul>
Caption on the TV menu is greyed out.	<ul> <li>You cannot select Caption in the TV menu when watching content from a device connected via HDMI or Component.</li> </ul>
	Caption must be activated on the external device.
There is a plastic smell from the TV.	This smell is normal and will dissipate in a few days.
TV <b>Signal Strength</b> is unavailable in the Self Diagnosis Test menu.	<ul> <li>This function is only available for digital channels received through an Antenna / RF/Coax connection.</li> </ul>
TV is tilted to the right or left side.	Remove the stand base from the TV and reassemble it.
The <b>Channel</b> menu is grey out (unavailable).	The Channel menu is only available when you select the TV source.
Your settings are lost after 30 minutes or every time the TV is turned off.	<ul> <li>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 &amp; Play procedure. Press the SOURCE button to select TV mode, go to MENU → Setup → Plug &amp; Play → ENTER.</li> </ul>
You have intermittent loss of audio or video.	<ul> <li>Check the cable connections and reconnect them.</li> <li>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.</li> </ul>
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	<ul> <li>Select Home Use under Plug &amp; Play mode. For details, refer to Plug &amp; Play (Initial Setup).</li> </ul>

You can watch detailed troubleshooting videos at www.samsung.com/spsn.

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

🗞 You can keep your TV in optimum condition by upgrading it with the latest firmware from the Samsung web site (samsung.com → Support → Downloads). To upgrade, download the firmware to your computer, copy the firmware file to a USB memory stick, insert the USB memory stick into the TV's USB slot, and then select Support > Software Upgrade in the TV's menu.

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• When you are watching TV connected to an antenna or cable connection, the TV will turn off after 10 - 15 minutes

## Support Menu

## Self Diagnosis

Picture Test: Use to check for picture problems. If the problem appears in the test picture, select Yes and follow the directions on the screen. Sound Test: Use the built-in melody sound to check for sound

problems. If the problem occurs during the test, select Yes and follow the directions on the screen. Signal Strength: (Digital channels only) An HD channel's

reception quality is either perfect or the channels are unavailable. Adjust your antenna to increase signal strength. Reset: Reset all settings to the factory defaults.

S The PIN input screen appears before the setup screen. 🔊 Enter your 4-digit PIN. Change the PIN using the Change PIN option.

### Software Upgrade

Use Mode

the TV.

on the wall.

🔊 NOTE

the TV.

License

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

You can turn the TV into a display model for retail environments by setting Use Mode to Store Demo

For all other uses, select Home Use

With Store Demo, some functions are disabled, and the TV To prevent the TV from falling automatically resets itself after a preset amount of time.

of the TV.

care.

LED-TV

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Securing the TV to the Wall

### HD Connection Guide

Refer to this information when connecting external devices to

### 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

### Other Information

may fall and result in severe personal injury.

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

🔊 Install the TV close to the wall so that it does not fall. Connect the string or cable so that the brackets on the wall are at the same height or lower than the brackets on the TV. For detailed information about installing the wall mount, see the nstructions provided with the wall mount items. Contact a technician For assistance when installing the wall mount bracket. Samsung Electronics is not responsible for any damage to the product or injury to 🔊 To purchase a TV Holder kit, contact Samsung customer

Wall Mount Kit Specifications (VESA) The wall mount kit is not supplied, but sold separately. Install your wall mount on a solid wall perpendicular to the floo When attaching to other building materials, please contact yo nearest dealer. If you install the TV on a ceiling or slanted wall

yourself or others if you elect to install the wall mount on your own.

 Standard dimensions for wall mount kits are shown in the table be When purchasing our wall mount kit, a detailed installation manual and all parts necessary for assembly are provided Do not use screws that do not comply with the VESA stands screw specifications.

 Do not use screws that are longer than the standard dimension or do not comply with the VESA standard screw specifications. Screws that are too long may cause damage to the inside of the TV set. For wall mounts that do not comply with the VESA standard screw specifications, the length of the screws may differ depending on the wall mount specifications.

Do not spray water directly onto the

product. Any liquid that goes into the

electric shock.

### Storage and Maintenance

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

👒 The exterior and screen of the product can get scratched during cleaning. Be sure to wipe the exterior and screen carefully using a soft cloth to prevent scratches.



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

	This DivX Certified® device has passed rigorous testing to ensure it plays DivX® video. To play purchased DivX movies, first register your device at vod.divx.com. Find your registration code in the DivX VOD section of your device setup menu. DivX Certified® to play DivX® video up to HD 1080p, including premium content. DivX®, DivX Certified® and associated logos are trademarks of DivX, LLC and are used under license. Covered by one or more of the following U.S. patents: 7,295,673; 7,460,668; 7,515,710; 8,656,183; 8,731,369; RE45,052.
DOLBY AUDIO	Manufactured under license from Dolby Laboratories. Dolby, Dolby Audio and the double-D symbol are trademarks of Dolby Laboratories.
2.0 Channel	For DTS patents, see http://patents.dts.com. Manufactured under license from DTS Licensing Limited. DTS, the Symbol, & DTS and the Symbol together are registered trademarks, and DTS 2.0 Channel is a trademark of DTS, Inc. © DTS, Inc. All Rights Reserved.
Studio Sound	For DTS patents, see http://patents.dts.com. Manufactured under license from DTS Licensing Limited. DTS, the Symbol, DTS in combination with the Symbol, and DTS Studio Sound are registered trademarks or trademarks of DTS, Inc. in the United States and/or other countries. © DTS, Inc. All Rights Reserved.
нэті	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 other countries.

Open Source Announcement

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### Kensington Lock

The Kensington Lock is not supplied by Samsung. It is a device used Optimal resolution: 1366 x 768@60Hz to physically fix the system when using it in a public place. Refe to the manual provided with the Kensington Lock for additional information on proper use

 $^{\otimes}$  Please find a "" icon on the rear of the TV. The Kensington

slot is beside the "☆" icon. S The position and color may differ depending on the model.

Assembling the Cable manager



### Display Modes (HDMI/DVI Input)

Mode	Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H / V)	1366 × 768
IBM	720 × 400	31.469	70.087	28.322	-/+	✓
	640 × 480	35.000	66.667	30.240	-/-	✓
MAC	832 × 624	49.726	74.551	57.284	-/-	$\checkmark$
	1152 × 870	68.681	75.062	100.000	-/-	
	640 × 480	31.469	59.940	25.175	-/-	$\checkmark$
	640 × 480	37.861	72.809	31.500	-/-	$\checkmark$
	640 × 480	37.500	75.000	31.500	-/-	$\checkmark$
	800 × 600	37.879	60.317	40.000	+/+	$\checkmark$
	800 × 600	48.077	72.188	50.000	+/+	$\checkmark$
	800 × 600	46.875	75.000	49.500	+/+	$\checkmark$
VECA	1024 × 768	48.363	60.004	65.000	-/-	$\checkmark$
VESA DMT	1024 × 768	56.476	70.069	75.000	-/-	✓
DIMI	1024 × 768	60.023	75.029	78.750	+/+	$\checkmark$
	1152 × 864	67.500	75.000	108.000	+/+	
	1280 × 720	45.000	60.000	74.250	+/+	✓
	1280 × 800	49.702	59.810	83.500	-/+	
	1280 × 1024	63.981	60.020	108.000	+/+	
	1280 × 1024	79.976	75.025	135.000	+/+	
	1366 × 768	47.712	59.790	85.500	+/+	$\checkmark$

#### Troubleshooting

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

Problem	Possible Solution
Flickering and Dimming	If your Samsung Television is flickering or dimming sporadically, you may need to disable some of its energy efficiency features such as the Energy Saving feature. Follow the steps below with your remote to turn these features off or on.
	• Energy saving : MENU $\rightarrow$ Setup $\rightarrow$ Eco Solution $\rightarrow$ Energy Saving $\rightarrow$ Select Settings
Component Connections / Screen Color	If you find that the color on your Samsung television's screen is not correct or black and white, first run a Self Diagnosis Test on the TV to make sure there are no device issues.
	<ul> <li>Self Diagnosis : User Menu → Support → Self Diagnosis → Picture Test</li> </ul>
	<ul> <li>If the test is ok, try making sure ;</li> </ul>
	<ul> <li>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.</li> </ul>
	• Try making sure you have connected to the correct jacks. For example, if you use the Component jacks, labeled Pb, Pr, and Y, to connect your TV and video source, make sure you have connected the blue Pb jack on the video source to the blue Pb jack on the TV, the red Pr jack on the source to the red Pr jack on the TV, etc.
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.
	<ul> <li>Backlight, Contrast, Brightness, Sharpness, Color, Tint and so on. Go to "Picture" in the Menu, and then try adjusting these options.</li> </ul>
Unwanted Powering off	If your Samsung TV appears to turn off by itself, there may be an issue with either your Timer settings or your Eco friendly No Signal Power Off feature.
	First make sure the <b>Sleep Timer</b> is not accidentally set. The Sleep Timer lets you fall asleep with the TV still on knowing that it will turn off after a certain period of time and not waste energy.
	<ul> <li>Sleep Timer : User Menu → Setup → Time → Sleep Timer</li> </ul>
	If the Sleep Timer is not activated, you may have engaged the No Signal Power Off or Auto Power Off feature.
	• No Signal Power Off : User Menu → Setup → Eco Solution → No Signal Power
	<ul> <li>Auto Power Off: User Menu → Setup → Eco Solution → Auto Power Off</li> </ul>

#### Specification Environmental Considera Operating Temperature 50°F to 104°F (10°C to 40°C Operating Humidity 10% to 80%, non-con -4°F to 113°F (-20°C to 45°C) 5% to 95%, non-condensing Storage Temperatur torage Humidity Model Name UN19F4000 Display Resolution 1366 x 768 Screen Size 19" Class (18.5" measured diagonally (Diagonal) Sound 3W x 2 Output Dimensions (W x H x D) 17.8 X 11.0 X 1.9 inches (453.7 X 281.3 X 49.5 (mm With stand (453.7 X 314.2 X 124.9 (mm Weight 5.5 lbs (2.5 kg) 5.7 lbs (2.6 kg) Without Stand With Stand

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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/recyclingdirect or call, (877) 278-0799.

JACK PANEL DETAIL / REAR VIEW



						(Unit. Inches)
Model name	1	2	3	4	5	6
UN19F4000	3.0	3.1	2.5	6.9	2.9	2.9
OTE: All drawings are not necessarily to scale. Some dimensions are subject to change without prior notice. Refer to the dimensions prior to erforming installation of your TV. Not responsible for typographical or printed errors.						

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

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

Samsung is not liable for product damage or personal injury

 Product Family
 TV size in inches
 VESA screw hole specs (A \* B) in millimeters
 Standard Screw
 Quantity

75 X 75

Caution: Pulling, pushing, or climbing onto the TV may cause the TV to fall. In particular, ensure that your

so may cause the TV to tip over, resulting in serious

the anti-fall device for safety purposes, as follows.

Since the necessary brackets, screws, and string or cable are not supplied, please purchase these separately.

Insert the screws into the wall brackets and firmly fasten them to the wall. Make sure the screws are firmly fixed to the wall.

 $\circledast$  We strongly recommend you drive the screws into a stud.

2. Using screws, insert the screws through the TV brackets, and

Connect the brackets on the TV and the brackets on the wall

with a strong strong or cable, and then tie the strong or cable tightly to the brackets.

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 installer.

Untie the string or cable before moving the TV.

n fasten the screws to the top VESA screw holes on the back

children do not hang over or destabilize the TV; doing

injuries or death. Follow all safety precautions provided

on the included Safety Flyer. For added stability, install

M4

Do not install your Wall Mount Kit while

personal injury due to electric shock.

your TV is turned on. It may result in

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Samsung is not liable for these kinds of accidents.

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

Always have two people mount the TV on a wall.