REGARDING TELEVISION FORMAT VIEWING

$\ensuremath{ \ ^{ }}$ 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,

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

should be limited to no more than 5% of the total television

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 requirement 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

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

and delete channels from your Favorite Channels list.

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

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

To delete channels from the Favorite Channels list, follow these

1. Select one or more channels in the Favorite Channels list

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

■ Timer Viewing: You can schedule a channel to be displayed

automatically at a set time, even when you are watching

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

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

another channel. You must set the current time first in the Time

1. Select a channel in the Added Channels list using the ▲/▼

3. Select $\operatorname{Timer Viewing}$ in the Tools menu, and then press the

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

If you select Everyday or Every Week, the date you

select in the Date field becomes the start date for your

scheduled viewing. For **Everyday**, the TV will turn on

every day, at the time you selected, starting from that

selected, at the time you selected, from that day on. If

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

date. For Every Week, the TV will turn on every week,

on the same day of the week as the start date you

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

 $\ \ \, \mathbb{S}$ Scheduled programs and channels are displayed in the

When you select a digital channel, press the ▶ button to

you set Timer Viewing for that program directly.

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

ENTER button. The Timer Viewing screen appears.

DTV Air 6-1 Once

number keypad on your remote.

and time you selected.

Programmed List.

Only Added Channels can be scheduled.

buttons and the Yellow Select button on your remote

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

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



ENTER → button.

the ENTER dutton

> Clock function to use Timer Viewing

To schedule a channel, follow these steps

the Original Limited Warranty Statement and a dated Bill of Sale as Proof of Purchase must be presented to the Service Center. 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 repair times, exchanges or replacements, accessories, options, upgrades, or consumables For the location of a SAMSUNG Authorized Service Center, please

4000

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

In Canada: 1-800-SAMSUNG

Still image warning

Center 🖀

■ Add to Favorite/Delete from Favorite: Lets you add channels to ■ Channel Name Edit: Analog channels only. Lets you assign

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

- Avoid displaying the same TV channel for long periods.
- Always try to display any image in full screen mode. Use the TV's Picture Options menu to select the optimal screen size.
- Reduce brightness and contrast values to the minimum required to achieve the desired picture quality. Values that exceed the ninimum may speed up the burn-in process.

Country	CANADA	II C A		
please contact the SAMSUNG customer care center.				
If you have any questions or comments relating to Samsung products,				
CUITACT SAMPOUND MO	CONTACT SAMSONG WORLDWIDE			

i	Country	CANADA	U.S.A
	Address	Samsung Electronics Canada Inc. 2050 Derry Road West, Mississauga, Ontario L5N 0B9 Canada	Samsung Electronics America, Inc. 85 Challenger Road Ridgefield Park, NJ 07660
:			

support (English)

www.samsung.com/ca_fr/

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- - decreases and vice versa. When the TV is connected to a PC, you can only make

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 ontions available on your TV. The Tools menus display a selected number of frequently used menu options that change depending on the screen you are viewing. A Tools menu symbo (Д) in the lower right side of the screen indicates that a Tools menu is available.

The Main menu has seven primary categories:

 Picture Input Sound Application

 Channel Support

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

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

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

Picture Menu

Setup

Mode Tools₁

Color / Tint (G/R)

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 /

■ Backlight: Adjusts the brightness of the screen by adjusting the brightness of the individual pixels.

- light areas of the picture.
- Brightness: Adjusts the brightness of the screen. Not as ■ 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
- changes to Backlight, Contrast, Brightness, and Sharpness.

Picture Options

the TVs 16:9 mode most of the time.

fits the entire screen.

(1280x720) resolution.

right, up, and down.

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

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

When the TV is connected to a PC, you can

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

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

gray borders on the right and left of the picture.

available by Input Source are listed below:

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

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

 ${\bf Zoom 2:}$ 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

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

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

Picture Size

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

1080p), HDMI (720p) Screen Fit

- 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 that may appear on the screen
- When the signal is weak, try all the Digital Clean View options until the TV displays the best picture.
- HDMI Black Level (Normal / Low): For HDMI signals, select the black level to adjust the screen depth. Low make blacks look darker. Available only in HDMI mode (RGB signals).
- Contrast: Increases or decreases the contrast between dark and Film Mode (Off / Auto1 / Auto2): 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).
 - the screen's backlights when full brightness is not needed for example when the TV is displaying dark scenes - to reduce power consumption. The backlights are returned to full brightness when the TV displays bright scenes.

Picture Off

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

Picture Reset Visually Impaired ■ Picture Reset (Reset Picture Mode/Cancel): Resets the picture (digital channels only)

Sound Menu

Mode Tools₁

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

Available in Standard sound mode only.

- Equalizer
- 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. Auto Volume

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

You can only select a language from among the ones being

simultaneously (for example, simultaneous translations of a

Multi-Track Sound (MTS)

program into foreign languages).

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 stered
- 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.

format may differ depending on the input source

Channel Menu

Memorizing Channels

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

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

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

the channels that were available over the air or through your

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

impaired.

Sound Reset

& Play procedure.

see a picture.

Antenna (Air / Cable)

The Auto Program function memorizes all channels that are ailable over the air or through your cable system and adds them Adds a verbal description to the main audio to help the visually to the Channel List. If you are using a cable or satellite box, you do not need to run the Auto Program function

Auto Program

Dolby Digital Comp

Sets Dolby Digital compression mode **HDMI Audio Format**

1. Push MENU → Channel → Auto Program → ENTER → on your remote. The Antenna Source screen appears. You can select the HDMI Audio format. The available HDMI Audio

To start Auto Program, follow these steps:

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

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

Channel memorization can take up to 45 minutes

depending on your cable system

Channel buttons on your remote.

completed. This process may take up to 20~30 minutes

This function is only available in Cable mode

Press the ENTER button to stop the Clear Scrambled

See your list of Added channels, Favorite channels, or channels

you've scheduled for viewing. Add or delete Favorite channels, add

or programs for viewing. Watch a channel by selecting the channel

in the All Channels. Added Channels, or Favorite Channels screen.

pressing the ▲ / ▼ 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

or delete channels from the Added Channels list, schedule channels

Clear Scrambled Channel

Managing Channels

Channel List

automatically select the correct Antenna source. Go to Step 3.

3. On the Cable Type screen, use the **◄/▶/▲/▼** buttons to select

or IRC Most systems are STD (Standard). When done select

Memorized channels are added to the Added Channels

ist. These are the channels you will see when you use the

Start, and then press ENTER . The TV will start memorizing

the type of digital and analog cable systems you have: STD, HRC,

- If your TV is connected to an antenna choose Air, and then press
- function to the channels you selected. ENTER. The TV will automatically start memorizing channels. I (Tools): Displays the Channel List Tools menu. (The Tools)
- If your TV is connected to a cable outlet, choose Cable, and then If you use a cable box or satellite box, you cannot use the press ENTER . Go to Step 3.
 - Channel List or the Channel List functions.

■ ¶ All Channels: Shows all currently available channels including

■ ♣ Added Channels: Shows all Added Channels. These are the

■ **© Programmed**: Shows all channels and programs currently

Remote control buttons active on the Channel List screen.

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

• Green (Zoom): Enlarges or shrinks a channel number

se you deleted from the Added Channels list.

channels that appear when you press the CH button.

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

scheduled using Timer Viewing.

Display Icons Used in the Channel List Screens

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

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

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

List screens. To view, select a list screen, select a channel, and then press the TOOLS button. This function filters out scrambled channels after Auto Program is ■ Add / Delete: Delete a channel from or add a channel to the

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

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

- the ▲/▼ buttons and the Yellow Select button on your remote.
- appears. 3. Select **Delete** in the Tools menu, and then press the ENTER
- To add channels to the Added Channels list, follow these steps:
- ▲/▼ buttons and the Yellow Select button on your remote.
- 3. Select Add in the Tools menu, and then press the ENTER
- All deleted channels will be shown on the All Channels list
- You add channels back to the Added Channels list on the
- A gray-colored channel indicates the channel has been deleted from the Added Channels list.
- The Add menu option only appears for deleted channels.

Other Channel Menu Functions

Channels)

■ 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.

The Programmed list displays the channels and programs you can view, modify, or delete a show you have scheduled using the

- channel you have scheduled
- To change the information, follow these steps:
- 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.
- 3. Select Change Info, and then press the ENTER → button. The
- 4. Use the **◄/▶** buttons to move from entry field to entry field and the $\blacktriangle/\blacktriangledown$ buttons to change the entries. Where numbers are displayed, you can also enter numbers directly using the
- 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
- 2. On the **Programmed** List screen, select the show or channel entry you want to cancel, and then press the TOOLS button. The Tools Menu appears
- button. The Cancel Schedules screen appears.
- 1. Select the **Programmed** List icon on the left side of the
- Channel List screen, and then press the ENTER → button.
- button. The Tools Menu appears. 3. Select Information, and then press the ENTER d 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 $\mathsf{ENTER} \boxdot$ button to close the Information screen.
- Select All / Deselect All: You can select or deselect all channels

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.

<u>© Programmed List (on the Channel List Screen)</u> have scheduled for viewing using the Timer Viewing function. You

functions on the Programmed List screen Tools menu Programmed List Screen Tools Menu TOOLS 7

- Change Info: Change the scheduling information for a show or
- 1. Select the Programmed List icon on the left side of the
- The Tools Menu appears.
- Timer Viewing screen appears.
- number keypad on your remote.
- Channel List screen, and then press the ENTER → button
- 3. Select Cancel Schedules, and then press the ENTER
- 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.
- 2. On the **Programmed** List screen, select the show or channel entry you want information for, and then press the TOOLS

Channel Mode (Added Channels/Favorite

Lets you select the channel list displayed when you press the

∧CH∨ (Channel) button on your remote. For example, if you select Favorite Channels, you will only see Favorite channels when you press the **∧CH∨** button Fine Tune

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

Setup Menu

Analog channels only.

Plug & Play

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

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

Setting the Time

Language

- The time you set will appear when you press the INFO
- Clock: Set the clock so you can use the various timer features If you disconnect the power cord, you have to set the
- To set the clock, follow these steps:

If you selected Auto:

- Select Setup >Time > Clock 2. Press ENTER and select Auto or Manual, and then press ENTER → again.
- The TV will automatically download the correct time from a • Select Time Zone, and then press the ENTER button Use the▲/▼ buttons to select your **Time Zone**, and then press ENTER ₩.
- Select DST (Daylight Savings Time), and then press ENTER ☑. Select On if you want to turn the DST adjustment on and off manually. Select **Off** to turn off the DST adjustment. Press ENTERC when done.
- The DST and Time Zone functions are only available when the Clock Mode is set to Auto.

If you selected Manual: The Clock Set screen appears. Use the ▲/▼ buttons to

change the values in each field or use the number buttons to enter the values directly. Use the
√ buttons to move from field to field. When done with all the fields, press ENTER.

Available only when Clock Mode is set to Manual. ■ Sleep Timer Tools 1

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

(30, 60, 90, 120, 150 and 180 minutes) To cancel the Sleep Timer, select Off

Timer1 / Timer2 / Timer3 Turns the TV on and off automatically at times and days you select. You can set three different on/off timer settings.

- You must set the clock first. ■ On Time / Off Time: Set the hour, minute, am/pm, and Activate/Inactivate fields for the On Time and Off Time. Use the $\blacktriangleleft/\blacktriangleright$ 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/
- Inactivate field to Activate.
- Volume: Set the desired loudness ■ Contents: To select what will be turned on when the timer setting is activated. You can set the TV to turn on a specific channel or play back contents such as photo or audio files. Use the **d/**▶ buttons to move to the Contents field, and then press the ENTER button. The Contents screen appears. Use the **◄/▶** buttons to move from field to field. Use the **▲/▼**

buttons to change the values in each field.

- TV/USB: Select TV or USB. The USB device must be connected to your TV before you can select USB.
- Antenna: Displays the current antenna source, Air or Cable. - Music/Photo: If you have selected USB, follow these steps to select a folder containing MP3 (Music) or JPEG (Photo) files on
- The maximum number of files the TV can display. including sub folders, in one folder of a USB storage device is 1000. The media may not play smoothly if you use a USB device
- rated lower than USB 2.0. 1. Use the **◄/**▶ buttons to move to the field under **Music** or the field under Photo, and then press the ENTER button. The TV displays a single folder (the Root folder)

and the type or name of the device.

re-appears.

- 2. Press the ENTER button. A list of folders on the device If there are no folders on your device, press the Yellow select button to select the Root folder, and
- 3. Use the ▲/▼ buttons to highlight a folder that contains music or photos, and then press the Yellow select button to select the folder. 4. Press the RETURN button. The Timer screen re-appears.

then press the RETURN button. The Timer screen

day, and then pressing the ENTER button. To unselect a day, highlight it, and then press the ENTER → button. When you finished making all your selections on the Timer screen, press either the ENTER → or RETURN button.

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

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

to activate the timer by using the **◄**/**▶** buttons to highlight the

Other Features

Program Rating Lock

children are watching.

Anglophone Canadian ratings

French Canadian ratings

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™ or Xbox™ 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

Game 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.

The Program Rating Lock feature lets you block programs you've

ratings. To access the Program Rating Lock feature and make any

The default PIN number of a new TV set is "0-0-0-0". You

can set your own PIN using the Change PIN function.

determined are inappropriate for your children based on the program's

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

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
- 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

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

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

■ Downloadable U.S. Rating: You can use parental restriction information while watching DTV channels. Locking/Blocking Programs or Movies

Adult Language / D: Sexually Suggestive Dialog

Enable or disable the display of the Samsung logo when you turn 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

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

To lock/block movies or shows with certain ratings and/or kinds of

disappears, press the OK button. The TV has memorized your 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
- 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
- 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
- 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

Boot Logo

Opacity to its default.

default is Style 0.

brightness of the TV to reduce power consumpt ■ 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

Eco Solution

received. Disabled when an attached PC is in power saving mode. ■ Auto Power Off (Off / On): When Auto Power Off is set to On,

the TV will automatically turn off when no user operation is

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

Auto Protection Time ■ Auto Protection Time (Off / 2 hours / 4 hours / 8 hours / 10 hours): If the screen remains idle with a still image for a certain

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

prevent the formation of ghost images on the screen

detected for 4 hours.

1 Press the SOURCE button

Input Menu

Use to select TV or other external input sources such as DVD / Bluray players / cable box / STB satellite receiver connected to the TV.

2. Select a desired external input source. ■ TV / AV / Component / HDMI1 / HDMI2/DVI You can only choose external devices that are connected to the

How to use Edit Name 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 Source your Blu-ray player is connected to HDMI 2, select Bluray player from the drop down next to HDMI 2. If you have connected a PC to the HDMI IN 2 (DVI) port with

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

⑤ If you have connected a PC to the HDMI IN 2 (DVI) port with

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

an HDMI to DVI cable, you should select DVI PC mode in Edit If you have connected an AV device to the HDMI IN 2 (DVI) port with an HDMI to DVI cable, you should select **DVI** mode

Application Menu

USB Mass Storage Class (MSC) device.

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



Connecting a USB Device 1. Turn on your TV.

- 2. Connect a USB device containing photo, music, and/or movie files to the USB jack on the back of the TV. A pop up window
- 3. Press the MEDIA.P button on your remote. The Media Play menu appears.



- Press the ◀ or ▶ button to select an icon (Videos, Music Photos, Settings), and then press the ENTER ☑ button. Media Play might not work properly with unlicensed multimedia files.
- The file system supports FAT16, FAT32, and NTFS. Certain types of USB Digital camera and audio devices may not be compatible with this TV.
- port. USB HDD is not supported. Before connecting your device to the TV, please back up your
- A USB device that requires high power (more than 0.5A) may not · Do not disconnect the USB device while it is loading.
- 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
- PTP (Pier to Pier) devices are not supported.
- · If an over-power warning message is displayed while you are connecting or using a USB device, the device may not be recognized or may malfunction.
- The power-saving mode of some external hard disk drives may be released automatically when your connect them to the TV.
 - 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
- The Videos option does not support the scene search and thumbnail functions.
 - is over approximately 4000, the files and folders may not appear and some folders máy not ópen.
- **Photos** only supports the sequential jpeg format.
- The media may not play smoothly if you use a USB device rated lower than USB 2.0.

- 2. Press the TOOLS button on your remote. The Tools menu
- 1. Select one or more channels in the All Channels list using the 2. Press the TOOLS button on your remote. The Tools menu

Using the Media Play Menu



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

- Press the MENU button. Then, press the ▲ or ▼ button to select Applications on the left, and then press the ENTER 🗗 button. 2. Press the ▲ or ▼ button to select Media Play (USB), and then press the ENTER 🚭 button.
- 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
- files to prevent file damage or loss of data. SAMSUNG is not responsible for any data file damage or data loss.
- The higher the resolution of the image, the longer it takes to display on the screen.
- and management of digital content in an integrated and comprehensive way, including protecting the rights and interests of content providers, preventing illegal copying of contents, and managing billing and settlements.

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

downloaded from a for-pay site. Digital Rights Management (DRM) is a technology that supports the creation, distribution

- If the TV has no input during the time period set in **Auto Protection Time**, the Screen saver will run.
- If you use a USB extension cable, the TV may not recognize the USB device or may not be able to read the files on the device. • If a USB device connected to the TV is not recognized, the list of files
- 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.
- If the number of files and folders saved on a USB storage device

- The maximum displayed number of files, including sub folders, in one folder of a USB storage device is 1000

Read the list below before using Media Play (USB)



In the Media Play menu, press the ◀ or ▶ button to select Videos, and then press the ENTER \blacksquare button

2. Press the **◄/▶/▲/▼** buttons to select a video in the file list. 3. Press the ENTER → button or ► (Play) button

The file name is displayed on the top of the screen with the playing time.

- If video time information is unknown, playing time and the progress bar are not displayed.

During video playback, you can search using the ◀ and ▶

🖎 In this mode, you can play movie clips contained in a game, but you cannot play the game itself.

• Supported Subtitle Formats

- External

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

Container	Format
AVI	Picture Format
MKV	Text Format
MKV	Text Format
MKV	Text Format
MP4	Text Format
	AVI MKV MKV MKV

Supported Video Formats

Trouble Powering On

Stand Assembly

Poor Picture

Cannot find a channel

The TV image does not look as good as it did in the store.

error, small block, dots, pixelization.

The color is wrong or missing

There is poor color or brightness

There is a dotted line on the edge of the screen.

When changing channels, the picture

There is no sound or the sound is too

The picture is good, but there is no

The speakers are making an

inappropriate noise.

No Picture, No Video

The TV will not turn on

The TV turns off automatically.

freezes or is distorted or delayed.

Sound Problems

The picture is black and white

sports and action movies.

Make sure the wall outlet is working.

• Ensure the Sleep Timer is set to Off in the Time menu.

If your PC is connected to the TV, check your PC power setting

- 13 -

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.

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

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

- Supported video Formats						
File Extension	Container	Video Codec	Resolution	Frame rate(fps)	Bit rate (Mbps)	Aud Cod
*.avi		Motion JPEG	640x480		8	
*.mkv *.asf		H.264 BP/ MP/HP				Dol Digi
*.wmv *.mp4	AVI MKV	H. 264 BP / MP / HP				LPC ADP
*.mov *.3gp	MP4 3GP	Divx 3.11 / 4 / 5 / 6				(IMA,
*.3gpp *.mpg		MPEG4 SP/ ASP	1920x1080	MAX 30	30	HE-A WM Dol
*.mpeg *.ts *.tp	FLV VRO VOB	Window Media Video v9(VC1)	172001000		30	Digi Plu
*.trp *.mov	PS TS	MPEG2				MPEG(DTS (C LBF
*.flv *.divx *.dat		MPEG1				G.711 Law, μ-
*.webm	WebM	VP8	1920x1080	6~30	20	Vort

Other Restrictions

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

• 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

• 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

• 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

above the TV's compatibility ratings

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 containers.

Music



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

2. Press the ◀/▶/▲/▼ buttons to select the desired Music in the 3. Press the ENTER → button or ▶ (Play) button.

During music playback, you can search using the ◀ and

(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.)

Photos



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

2. Press the $\blacktriangleleft/\triangleright/\triangle/\blacktriangledown$ buttons to select a photo in the file list. Press the ENTER button or ► (Play) button.

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) button You can move to other files using

or

button.

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
IDEC	Base-line	15360 x 8640
JPEG	Progressive	1024 x 768

Other Restrictions

• CMYK, YCCK Color space JPEG are not supported.

Playing Multiple Files

■ Playing selected video/music/photo files

1. On the File List screen, highlight a file, and then press the Yellow button on your 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 d 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
Title	You can select another video file to play directly.	✓		
Repeat Mode	You can play movie and music files repeatedly.	~	✓	
Picture Size	You can adjust the picture size to your preference.	~		
Picture Mode	You can adjust the picture setting.	✓		~
Sound Mode	You can adjust the sound setting.	✓	✓	✓
Subtitle Settings	You can play the video with Subtitles. This function only works if the subtitles have the same file name as the video.	>		
Audio Format	You can select the digital audio output format.	~		
Audio Language	You can change the audio language if the video has more than one language.	~		
Stop Slide Show / Start Slide Show	You can start or stop a Slide Show.			~
Slide Show Speed	You can select the slide show speed during the slide show.			~
Background Music	You can set and select background music when watching a Slide Show.			~
Zoom	You can zoom into images in full screen mode.			~
Rotate	You can rotate images in full screen mode.			~
nformation	You can see detailed information about the played file.	✓	✓	✓
Sattings				

Using the Setup Menu

■ 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.

For more information on DivX® VOD, visit "http://vod. divx.com". ■ Information: Select to view information about the connected

USB device.

☐ Using Sports Mode TOOLS ☐

other sports.

Select a part to zoom it in.

There is no picture/video Before you turn the TV on, find the red light on the right or left bottom of your TV. Press the power on button on the TV or remote and the light should blink about 5 times before the TV turns on If you find that you are having trouble powering on your Samsung television, there are a number of things to check 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 press the power button, your PC is in sleep mode. To take your PC out of sleep mode, press a key on your keyboard or move the mouse. Then try turning your TV on. If you're sure your power cord, remote control, and PC are functioning properly, you may be having a cable issue. If you have a cable or satellite box, your TV may appear to be off because the cable or satellite box is not outputting a signal. To test the signal output of your cable or satellite box, press the guide or info button on the cable or satellite box remote control. If the screen displays the guide or info data, the problem is caused by the box. · If you have any trouble assembling the stand, refer to "Install the Stand" in the Start Up or Stand Installation · Re-run Plug & Play or run Auto Program. (go to MENU - Channel - Auto Program) First, perform the Picture Test and to see if your TV is displaying the test image properly. Go to MENU - Support - Self Diagnosis - Picture Test If the test image is properly displayed, the poor picture may be caused by the source or signal. If you have an analog cable/satellite box, upgrade to a digital set top box. Use HDMI or Component cables to deliver HD (high definition) picture quality. ${\it Cable/Satellite subscribers: Try\,HD\ channels\ from\ the\ channel\ line\ up.}$ Air/Cable Antenna connection: Try HD channels after running Auto Program. Many HD channels broadcast up scaled SD (Standard Definition) content. The picture quality of up Adjust the Cable/Set top box video output resolution to 1080i or 720p. Compression of video contents may cause picture distortion, especially on fast moving pictures such as those in . 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 lacks. orrect or loose connections may cause color problems or a blank screen · Adjust the Picture options in the TV menu. (go to Picture Mode / Color / Brightness / Sharpness) • 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**) • 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 • 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.) 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. (go to MENU - Support - Self Diagnosis - Sound Test) If the audio is OK, the sound problem may be caused by the source or signal. (unavailable). Check the volume of the device (Cable/Sat Box, DVD, Blu-ray, etc.) connected to your TV · If you are using an external device, check the device's audio output option Ex. you may need to change your 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. 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. You see small particles when you look • This is part of the product's design and is not a defect. sely at the edge of the frame of Make sure the AC power cord is securely plugged into the wall outlet and the TV

input. For example, if an external device's output is HDMI, it should be connected to an HDMI input on the TV. Make sure your connected devices are powered on. • Be sure to select the correct input source by pressing the SOURCE button on the remote control. Reboot the connected device by unplugging and then reconnecting the device's power cable. RF (Cable/Antenna) Connection The TV is not receiving all channels. Make sure the coaxial cable is connected securely. Run Auto Program to add available channels to the channel list Go to MENU - Channel - Auto Program then select Auto and make sure the correct Cable TV signal type is set in the menu. There are 3 options. (STD, HRC and IRC) Verify the antenna is positioned correctly. Check the Caption Setup menu. Try changing Caption Mode Service1 to CC1. No Caption on digital channels. • Some channels may not have caption data. 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 those in sports and action movies A weak signal can cause picture distortion. This is not a TV probler Purple/green rolling horizontal bars · Remove the left and right audio connections from the set-top-box. If the buzzing stops, this indicates that the and buzzing noise from the TV speakers with Component cable connection. set-top-box has a grounding issue. Replace the Component video cables with an HDMI connection $\bullet \ \ \mathsf{HD} \ \mathsf{channels} \ \mathsf{will} \ \mathsf{have} \ \mathsf{black} \ \mathsf{bars} \ \mathsf{on} \ \mathsf{either} \ \mathsf{side} \ \mathsf{of} \ \mathsf{the} \ \mathsf{screen} \ \mathsf{when} \ \mathsf{displaying} \ \mathsf{up} \ \mathsf{scaled} \ \mathsf{SD} \ \mathsf{(4:3)} \ \mathsf{contents}.$ The picture will not display in full · Black bars on the top and bottom appear when movies that have aspect ratios different from your TV play on • Adjust the picture size option on your external device or change the TV to full screen • Replace the remote control's batteries. Make sure you insert them with the polarity (+/-) correct The remote control does not work. 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. Program the Cable/Set top box remote control to operate the TV. Refer to the Cable/Set top box user manual for does not turn the TV on or off, or adjust the SAMSUNG TV code. Check the supported resolution of the TV and adjust the external device's output resolution accordingly. Refer to A "Mode Not Supported" message 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. This smell is normal and will dissipate in a few days. TV Signal Strength is unavailable in the • This function is only available for digital channels received through an Antenna / RF/Coax connection TV is tilted to the right or left side. Remove the stand base from the TV and reassemble it. The Channel menu is grey out The Channel menu is only available when you select the TV source. Your settings are lost after 30 minutes | • 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 → Plug & Play → ENTER[→]. or every time the TV is turned off. You have intermittent loss of audio 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

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.

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 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

Category	Operation	Videos	Music	Photos
tle	You can select another video file to play directly.	✓		
epeat Mode	You can play movie and music files repeatedly.	~	~	
cture Size	You can adjust the picture size to your preference.	~		
cture Mode	You can adjust the picture setting.	~		~
ound Mode	You can adjust the sound setting.	✓	✓	✓
ubtitle ettings	You can play the video with Subtitles. This function only works if the subtitles have the same file name as the video.	~		
udio Format	You can select the digital audio output format.	~		
udio anguage	You can change the audio language if the video has more than one language.	~		
top Slide how / tart Slide how	You can start or stop a Slide Show.			~
ide Show beed	You can select the slide show speed during the slide show.			✓
ackground usic	You can set and select background music when watching a Slide Show.			~
oom	You can zoom into images in full screen mode.			~
otate	You can rotate images in full screen mode.			~
formation	You can see detailed information about the played file.	✓	✓	~

This mode provides optimized conditions for watching soccer and

• A (Zoom): Pauses playback and divides the picture into 9 parts.

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

is turned off.

· 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

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

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

→ 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.

- 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.
- The PIN input screen appears before the setup screen.

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

Software Upgrade

PIN option.

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

Use Mode

the TV.

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

automatically resets itself after a preset amount of time. HD Connection Guide Refer to this information when connecting external devices to

With Store Demo, some functions are disabled, and the TV

Contact Samsung View this information when your TV does not work properly or when you want to upgrade the software. You can find information

regarding our call centers and how to download products and

Other Information

Installing the Wall Mount Kit

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

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

Wall Mount Kit Specifications (VESA) The wall mount kit is not supplied, but sold separately.

Install your wall mount on a solid wall perpendicular to the floor. When attaching to other building materials, please contact your nearest dealer. If you install the TV on a ceiling or slanted wall, it may fall and result in severe personal injury.

NOTE

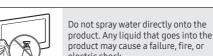
- · Standard dimensions for wall mount kits are shown in the table below. When purchasing our wall mount kit, a detailed installation
- manual and all parts necessary for assembly are provided • Do not use screws that do not comply with the VESA standard
- screw specifications. Do not use screws that are longer than the standard dimension or
- do not comply with the VESA standard screw specifications. Screws that are too long may cause damage to the inside of the TV set.
- For wall mounts that do not comply with the VESA standard screw specifications, the length of the screws may differ

depending on the wall mount specifications.

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

nthe 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.

Manufactured under license from Dolby Laboratories.





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

License



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 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.

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Open Source Announcement

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For DTS patents, see http://patents.dts.com, Manufactured under license from DTS Licensing Limited, DTS, the

Kensington Lock

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

Samsung is not liable for these kinds of accidents.

Samsung is not liable for product damage or personal injury

Product TV size in VESA screw hole specs Standard Guantity inches (A * B) in millimeters 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.

We strongly recommend you drive the screws into a stud.

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

3. Connect the brackets on the TV and the brackets on the wall with a strong string or cable, and then tie the string or cable 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.

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

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

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

· Always have two people mount the TV on a wall.

Securing the TV to the Wall

To prevent the TV from falling

of the TV.

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 when a non-VESA or non-specified wall mount is used or the consumer fails to follow the product installation instructions. 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 "\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mod}\mod}\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb The position and color may differ depending on the model.

Assembling the Cable manager



Optimal resolution: 1366 x 768@60H Mode Resolution Frequency Frequency Frequency Polarity 1366 × 768

Display Modes (HDMI/DVI Input)

	Houc	Resolution	(KHz)	(Hz)	(MHz)	(H / V)	1500 700
	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	-/-	✓
		1152 × 870	68.681	75.062	100.000	-/-	
		640 × 480	31.469	59.940	25.175	-/-	~
		640 × 480	37.861	72.809	31.500	-/-	~
		640 × 480	37.500	75.000	31.500	-/-	~
		800 × 600	37.879	60.317	40.000	+/+	~
		800 × 600	48.077	72.188	50.000	+/+	~
		800 × 600	46.875	75.000	49.500	+/+	~
	VECA	1024 × 768	48.363	60.004	65.000	-/-	✓
	VESA DMT	1024 × 768	56.476	70.069	75.000	-/-	✓
	Di-II	1024 × 768	60.023	75.029	78.750	+/+	✓
		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	+/+	

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 → Setup → Eco Solution → Energy Saving → Select Settings
Component Connections / Screen Color	If you find that the color on your Samsung television's screen is not correct or black and white, first run a Self Diagnosis Test on the TV to make sure there are no device issues. • Self Diagnosis : User Menu → Support → Self Diagnosis → Picture Test
	If the test is ok, try making sure ;
	Your connections are all consistent. For example, if you've used the AV In jack on your TV, make sure you have used the AV Out jack on your video source.
	 Try making sure you have connected to the correct jacks. For example, if you use the Component jacks, labeled Pb, Pr, and Y, to connect your TV and video source, make sure you have connected the blue Pb jack on the video source to the blue Pb jack on the TV, the red Pr jack on the source to the red Pr jack on the TV, 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. • Backlight, Contrast, Brightness, Sharpness, Color, Tint and so on. Go to "Picture" in the Menu, and then try adjusting these options.
Unwanted Powering off	If your Samsung TV appears to turn off by itself, there may be an issue with either your Timer settings or your Eco friendly No Signal Power Off feature.
	First make sure the Sleep Timer is not accidentally set. The Sleep Timer lets you fall asleep with the TV still on knowing that it will turn off after a certain period of time and not waste energy.
	• Sleep Timer : User 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: User Menu → Setup → Eco Solution → No Signal Power
	Auto Power Off : User Menu → Setup → Eco Solution → Auto Power Off

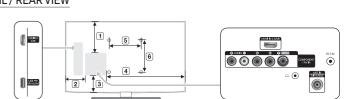
Specifications Operating Temperature 50°F to 104°F (10°C to 40°C) perating Humidity 10% to 80%, non-cond -4°F to 113°F (-20°C to 45°C) 5% to 95%, non-condensing Model Name Display Resolution 1366 x 768 Screen Size 19" Class (18.5" measured diagonally) (Diagonal) Dimensions (W x H x D) 17.8 X 11.0 X 1.9 inches (453.7 X 281.3 X 49.5 (mm) With stand (453.7 X 314.2 X 124.9 (mm) Weight

With Stand

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

Eror 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)

NOTE: 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. © 2016 Samsung Electronics America, Inc