

4000

user manual

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

Important Warranty Information Regarding

Television Format Viewing

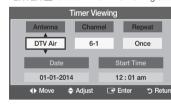
See the warranty card for more information on warranty

Wide screen format LED Displays (16:9, the aspect ratio of the screen width to height) are primarily designed to view wide screen format full-motion video. The images displayed on them should rimarily be in the wide screen 16:9 ratio format, or expanded to fill the screen if your model offers this feature and the images are constantly moving. Displaying stationary graphics and images on creen, such as the dark sidebars on non- expanded standard format television video and programming, should be limited to no more than 5% of the total television viewing per week. Additionally, ewing other stationary images and text such as stock market reports, video game displays, station logos, web sites or computer graphics and patterns, should be limited as described above for Ill televisions. Displaying stationary images that exceed the above guidelines can cause uneven aging of LED Displays that leave subtle, but permanent burned-in ghost images in the LED picture. To avoid this, vary the programming and images, and primarily display full screen moving images, not stationary patterns or dark bars. On LED models that offer picture sizing features, use these controls to view different formats as a full screen picture. Be careful in the selection and duration of television formats you use for viewing. Uneven LED aging as a result of format selection and use, as well as burned-in images, are not covered by your Samsung limited warranty.

• SAMSUNG ELECTRONICS NORTH AMERICAN LIMITED WARRANTY STATEMENT

Subject to the requirements, conditions, exclusions and limitations of the original Limited Warranty supplied with Samsung Electronics (SAMSUNG) products, and the requirements, conditions, exclusions and limitations contained herein, SAMSUNG will additionally provide Warranty Repair Service in the United States on SAMSUNG products purchased in Canada, and in Canada on SAMSUNG products purchased in the United States, for the warranty period originally specified, and to the Original Purchaser only. The above described warranty repairs must be performed by a SAMSUNG Authorized Service Center. Along with this Statement, the Original Limited Warranty Statement and a dated Bill of Sale as Proof of Purchase must be presented to the Service Center.

- **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 Time Viewing. To schedule a channel, follow these steps:
- 1. Select a channel in the Added Channels list using the $\blacktriangle/
 abla$ buttons and the Yellow Select button on your remote. 2. Press the TOOLS button on your remote. The Tools menu
- appears. 3. Select **Time Viewing** in the Tools menu, and then press the ENTER 🗗 button. The Time Viewing screen appears.



4. Use the $\triangleleft/\triangleright$ buttons to move from entry field to entry field and the \blacktriangle/∇ buttons to change the entries. Where numbers are displayed, you can also enter numbers directly using the number keypad on your remote.

- S If you select Everyday or Every Week, the date you select in the Date field becomes the start date for your scheduled viewing. For Everyday, the TV will turn on every day, at the time you selected, starting from that date. For Everyweek. the TV will turn on every week. on the same day of the week as the start date you 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 🗬 button on your remote when done.
- Solv Added Channels can be scheduled
- Scheduled programs and channels are displayed in the Programmed List
- \mathbb{S} When you select a digital channel, press the \blacktriangleright 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.
- **Select All**: Select all the channels in the displayed channel list. Deselect All: Deselect all the selected displayed channels. Solution You can only select **Deselect All** when one or more
- channels are selected. Channel Name Edit: Analog channels only. Lets you assign a ame of up to five characters to an analog channel. For example,
- Hist, Food, Golf, etc. This makes it easier to find and select a Select All / Deselect All: You can select or deselect all channels channel ■ Auto Program: See Auto Program under Memorizing Channels.

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Transportation to and from the Service Center is the responsibility of the purchaser. Conditions covered are limited only to manufacturing defects in material or workmanship, and only those encountered in normal use of the product. Excluded, but not limited to, are any originally specified provisions for, in-home or on-site services, minimum or maximum repair times exchanges or replacements

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 screen. The constant display of still pictures can cause ghosting or mage burn-in (image retention) on the LED screen, which will affect image quality. To reduce the risk of this effect, please follow the recommendations below:

- 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
- minimum may speed up the burn-in process. • Frequently use all TV features designed to reduce image retention and screen burn-in. Refer to proper user manual section for

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

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uddress	Samsung Electronics Samsung Electronics Canada Inc., Customer America, Inc. Service 55 Standish Court 85 Challenger Road Mississauga, Ontario L5R Ridgefield Park, NJ 4B2 Canada 07660-2112			
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Programmed List (on the Channel List Screen) The **Programmed** list displays the channels and programs you

have scheduled for viewing using the Time 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 I 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 I button.
- The **Time Viewing** screen appears. 4. Use the **◄/**► buttons to move from entry field to entry field and the \blacktriangle/∇ 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

- To cancel a scheduled show or channel, follow these steps: Select the Programmed List icon on the left side of the
- Channel List screen, and then press the ENTER I button. 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.
- 3. Select Cancel Schedules, and then press the ENTER button. The Cancel Schedule screen appears.
- 4. Select **OK**, and then press the ENTER 🖼 button.
- Information: Display the information for a show or channel you have scheduled. You can also change the schedule Information. . Select the **Programmed** List icon on the left side of the
- Channel List screen, and then press the ENTER I 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 **Time Viewing** Information screen appears.
- 4. Select Change Info and press the ENTER 🛃 button to change information, or select Close and press the ENTER
- button to close the Information screen.
- n 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 he menu options 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 (力) in the lower right side of the screen indicates that a Tools menu is available

Advanced Settings

ailable in Standard and Movie mode only

changes to Gamma and White Balance.

precise picture with more precise controls

color range of the video source

green, blue) darkness

Gamma: Adjusts the primary color intensity

blue) brightness.

dim light, the screen dims.

Picture Options

Available in Standard mode only

mode is set to Dynamic.

top, and bottom are cut off.

(1080i / 1080p) HD signals.

and bottom are cut off.

its the entire screen

screen contrast

look darker.

Compared to previous models, new Samsung TVs offer a more

Nhen your TV is connected to a PC, you can only make

Color Space (Auto / Native): Auto automatically matches the

range of colors available to create pictures to the color range of

the video source. Native provides a color range wider than the

White Balance: Adjusts the color temperature of the picture so

that white objects look white (instead of for example slightly

pink or slightly yellow) and the overall color of the picture looks

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

R-Gain / G-Gain / B-Gain: Adjusts each color's (red, green,

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

Dynamic Contrast (Off / Low / Medium / High): Adjusts the

Black Tone (Off / Dark / Darker / Darkest): Selects the black

Motion Lighting (Off / On): When on, the TV automatically

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

Color Tone (Cool / Standard / Warm1 / Warm2): Cool makes

S Warm1 and Warm2 are deactivated when the picture

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 the TVs 16:9 mode most of the time.

Zoom1: Provides moderate magnification of the picture. Sides,

Zoom2: Provides larger magnification of the picture. Sides, top,

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

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

920x1080) or 720p (1280x720) resolution.

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

races of borders displayed on the left, right and center of

the screen may cause image retention (screen burn) which

our TV is inputting HDMI (720p / 1080i / 1080p) or Component

HD (High Definition) has a 16:9 aspect ratio and 1080i/1080p

🗞 You can adjust and store settings for each external device you

The **Clock Set** screen appears. Use the \blacktriangle/\intercal buttons to

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

enter the values directly. Use the $\triangleleft/\triangleright$ buttons to move from

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

Available only when Clock Mode is set to Manual.

Automatically shuts off the TV after a preset period of time. (30,

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

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

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

 \checkmark buttons to move from field to field. Use the \land/\lor buttons

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

to change the values in each field. To activate the timer with

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

and then press the ENTER 🔫 button. The Contents scree

the $\blacktriangle/ \blacksquare$ buttons to change the values in each field.

connected to your TV before you can select USB

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

Use the $\triangleleft/\triangleright$ buttons to move to move to the Contents field

appears. Use the *◄/* buttons to move from field to field. Use

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

S The maximum displayed number of files, including sub

folders, in one folder of USB storage device is 2000.

The media may not be playing smoothly when using the

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

or the field under Photo, and then press the ENTER

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

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

Solution States Sta

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

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

Sat~Sun or Manual. If you select Manual, you can select the

days you want to activate the timer by using the </▶ buttons

to highlight the day, and then pressing the ENTER I button.

To unselect a day, highlight it, and then press the ENTER 🚭

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

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

press either the ENTER 🕑 or RETURN button.

music or photos, and then press the Yellow select button

Yellow select button to select the Root folder, and then press the RETURN button. The Timer screen

- 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

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

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

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

porders on the right and left of the picture.

is not covered by the warranty.

by Input Source are listed below:

If you selected Manual:

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

Timer 1 / Timer 2 / Timer 3

Sou must set the clock first.

■ Volume: Set the desired loudness.

Activate.

the USB device:

appears.

button

re-appears

to select the folder.

device lower than USB 2.0.

and the type or name of the device.

State of the Sleep Timer, select Off

Sleep Timer TOOLS

the picture bluer (cooler). Warm 1 and Warm 2 make the picture

adjusts the brightness of the screen in response to the

Flesh Tone: Adjusts the amount of red in skin tones.

level to adjust the screen depth. Darker settings make blacks

brightness of the room. In bright light, the screen brightens. In

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.
- Solution 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 n the Source List.

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

Picture Menu

Mode TOOLS

- Select your preferred picture mode. Nhen your TV is connected to a PC, you can only select
- Entertain and Standard. **Dynamic**: Brightens the screen. Suitable for a bright room.
- **Standard**: Suitable for a normal.
- Movie: Darkens the screen, making it less glary. Suitable for watching movies in a darkened room
- Entertain: Sharpens the picture. Suitable for games. Solution Only available when the **TV** is connected to a **PC**.

Backlight / Contrast / Brightness / Sharpness /

Color / Tint (G/R) Backlight: Adjusts the brightness of the screen by adjusting the

- brightness of the individual pixels. Contrast: Increases or decreases the contrast between dark and
- light areas of the picture Brightness: Adjusts the brightness of the screen. Not as
- effective as Backlight Sharpness: Sharpens or dulls the edges of objects
- Color: Adjusts the color saturation. The higher the Color setting the more intense the color. Low settings remove color and the
- picture becomes black, white and gray. Tint 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.
- Note: When 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 **ACHV** 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.

 $^{\odot}$ Select the channel, and then select Fine Tune. Sine 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

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

Language

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

□ Setting the Time

- The time you set will appear when you press the INFO button
- Clock: Set the clock so you can use the various timer features
- of the TV. Solution If you disconnect the power cord, you have to set the clock again.

The TV will automatically download the correct time from a

• Select Time Zone, and then press the ENTER I button.

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

ENTER . Select On if you want to turn the DST

to DST automatically. Press ENTER 🕞 when done.

the Clock Mode is set to Auto.

S DST and Time Zone function are only available when

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

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

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

- To set the clock, follow these steps
- 1. Select Setup >Time > Clock. 2. Press ENTER I and select Auto or Manual, and then press

ENTER 🗬 again.

digital channel.

If you selected Auto:

press ENTER 🛃.

Input Source	Picture Size
ATV, AV, Component (480i, 480p)	16:9, Zoom1, Zoom2, 4:3
DTV (1080i, 1080p), Component (1080i, 1080p), HDMI (720p, 1080i, 1080p)	16:9, Wide Fit, 4:3, Screen Fit

Digital Clean View (Off / Low / Medium / High / Auto): If the **SAP**: Select to listen to the Separate Audio Program, which is broadcast signal received by your TV is weak, you can activate the **Digital Clean View** feature to reduce any static and ghosting hat may appear on the screen

Nhen the signal is weak, try all the Digital Clean View options until the TV displays the best picture. MPEG Noise Filter (Off / Low / Medium / High / Auto) : Reduces MPEG noise to provide improved picture quality HDMI Black Level (Normal / Low) : For HDMI signals, select the black level to adjust the screen depth. Low make blacks look

Available only in **HDMI** mode (RGB signals). Film Mode (Off / 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). ■ LED Clear Motion (Off / On): Removes drag from fast scenes

with a lot of movement to provide a clear picture. Picture Reset

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

Sound Menu

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. Amplify: Increase the intensity of high-frequency sounds to allow a better listening experience for the hearing impaired.

Equalizer

Available in Standard sound mode only.

Balance L/R: Adjusts the balance between the right and left ■ 100Hz / 300Hz / 1KHz / 3KHz / 10KHz (Bandwidth

Adjustment): Adjusts the loudness of specific bandwidth frequencies.

Reset: Resets the equalizer to its default settings. SRS TruSurround HD (On/Off)

Available in Standard sound mode only.

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

Preferred Language

Digital channels only.

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

Solution You can only select a language from among the ones being broadcast.

□ Other Features

Program Rating Lock

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

Solution Program Rating Lock is not available in HDMI or Component mode

Solution 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.

How It Works

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

When the Rating Lock screen appears, select **Program Rating** Lock, and then press ENTER . Select On, and then press the ENTER I 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 I 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 mplemented a rating system that provides parents or guardians with advanced information on which films are appropriate for

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

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

Downloadable U.S. Rating: Parental restriction information can be used 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 / 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: The Change PIN screen will appear. Choose any 4 digits for your PIN and enter them in Enter New PIN fields. Re-enter the same 4 digits in **Confirm New PIN** fields. When the Change PIN screen disappears, press the OK button. The TV 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)

Reset All: Resets all sound settings to the factory defaults

Channel Menu

Multi-Track Sound (MTS)

Analog channels only

Auto Volume

Sound Reset

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.

Mono: Select for channels that are broadcasting in mono or if

Stereo: Select for channels that are broadcasting in stereo

Depending on the program being broadcast, you can listen to

Automatically adjusts the volume level when you change video

you are having difficulty receiving a stereo signal

sources or content so the level remains the same.

usually a foreign-language translation.

Mono. Stereo or SAP.

Antenna (Air / Cable)

Before your television can memorize the available channels, you 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 function 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

Auto Program

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

To start Auto Program, follow these steps:

then press ENTER . Go to Step 3.

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

Air 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

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.

- Second 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
- Same Mode is not available when the input source is set to τv
- After connecting the game console, set Game Mode to On. You may notice slightly reduced picture quality.

Caption (On-Screen Text Dialoque)

Caption: You can switch the caption function on or off. If captions are not available, they will not be displayed on the screen

Solution The Caption feature does not work in Component or HDMI mode.

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 channels.
- Service1~6 may not be available in digital caption mode lepending on the broadcast
- 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 Cvan, You can change the background color of the captions. The default is Black. Foreground Opacity: This adjusts the opacity of text. Options include Default, Transparent, Translucent, Solid and Flashing.

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

Foreground Color, Background Color, Foreground Opacity and Background Opacity to its default.

- Solution Digital Caption Options are available only when you can select **Default** and **Service1** ~ **Service6** in **Caption Mode**. Solution The Foreground and Background cannot be set to the
- same color. Melody
- Set so that a melody plays when the TV is turned on or off.
- So The Melody does not play • When no sound is output from the TV because the MUTE
- button has been pressed.
- When no sound is output from the TV because the volume has been reduced to minimum with the VOL - buttor
- When the TV is turned off by Sleep Timer function.

Auto

If you choose Auto, and then press ENTER . the TV will automatically select the correct Antenna source. Go to Step 3.

1. On the Cable Type screen, use the </▶/▲/▼ 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 I. The TV will start memorizing

Display Icons Used in the Channel List Screens

A selected channel.

A reserved program.

A program currently being broadcast.

The Channel List Tools menu contains most of the functions you

can use on the All Channel. Added Channels, and Favorite List

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

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

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

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

All deleted channels will be shown on the All Channels lis

A gray-colored channel indicates the channel has been

Solution The Add menu option only appears for deleted channels

Add to Favorite/Delete from Favorite: Lets you add channels to

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

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

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

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

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

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

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

deleted from the Added Channels list.

To add channels to the Favorites list, follow these steps:

and delete channels from your Favorites list.

You add channels back to the Added Channels list on the

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

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

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

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

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

A Favorite channel

Icons

 \checkmark

•

Θ

ď

press the TOOLS button.

Added Channels list.

appears.

button.

appears.

button.

appears.

appears.

ENTER 🕑 button.

the ENTER 🗗 button.

□ Using the Media Play Menu

oen **Media Play** in the Menu, follow these steps

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

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

Readers. Devices should be connected directly to the TV's USB

files to prevent them from damage or loss of data. SAMSUNG is not responsible for any data file damage or data loss.

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

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

Media Play might not work properly with unlicensed multimedia files.

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

• The file system supports FAT16, FAT32 and NTFS.

· A USB device that requires high power (more that

Do not disconnect the USB device while it is loading

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

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 "Not Supported File Format" message appears.

downloaded from a for-pay site. Digital Rights Managemen

• If an over-power warning message is displayed while you are connecting or using a USB device, the device may not be

• If the TV has no input during the time period set in Auto

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 LISB device connected to the TV is not recognized, the list of

files on the device is corrupted, or a file in the list is not played, connect the USB device to a PC, format the device, and check

• If a file you deleted from the PC is still found when you run Media

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

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

Play, use the "Empty the Recycle Bin" function on the PC to permanently delete the file.

The Videos option does not support the scene search and

• Photos only supports the sequential jpeg format.

Protection Time, the Screensaver will run.

(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 interest

of content providers, preventing illegal copying of contents, and

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

port. USB HDD is not supported.

nanaging billing and settlements.

• PTP devices are not supported.

recognized or may malfunction.

the connection.

humbnail functions

some folders may not open.

be supported.

display on the screen.

All Channels list.

Meaning

channels. Schannel memorization can take up to 45 minutes, depending 🔲 The Channel List Tools Menu TOOLS 🗊 on your cable system.

Solution Memorized channels are added to the Added Channels list. These are the channels you will see when you use the

Clear Scrambled Channel

Channel buttons on your remote.

This function filters out scrambled channels after Auto Program is completed. This process may take up to 20~30 minutes. Newsymbol Press the ENTER 🖼 button to stop the Clear Scrambled

- Channel Solution This function is only available in Cable mode.

Managing Channels

Channel List

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

۹.	6 6-1	Air ♥ TV #6	
,F	• 7-1	♥ TV #7	
- ¥	8	Air	
(6)	9	Air	
-	9-1	♥ TV #9	
	10	Air	
	10-1	♥ TV #10	
	11-1	♥ TV #11	
Air	Zoom	Select 🞵 Tool	s ▶ Next Program

Channel List Screens icons are listed on the left side. Select an icon using the \blacktriangle/∇ buttons to view each list. All Channels: Shows all currently available channels including

those you deleted from the Added Channels

- Added Channels: Shows all Added Channels. These are the channels that appear when you press the CH button.
- **Favorite**: Shows all favorite channels. Programmed: Shows all channels and programs currently

unction to the channels you selected

Auto Protection Time

button to turn on the screen

Support Menu

follow the directions on the screen.

Eco Solution

being received.

Self Diagnosis

on the screen.

PIN option

Software Upgrade

Contact Samsung

Media Play

1. Turn on your TV

appears.

menu appears.

HD Connection Guide

menus may differ depending on the situation.)

the formation of ghost images on the screen

scheduled using Timer Viewing. Semote control buttons active on the Channel List screen

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

• Yellow (Select): Move the cursor to a channel. Press the Yellow

• 🞜 (Tools): Displays the Channel List Tools menu. (The Tools

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

Energy Saving (Off / Low / Medium / High / Picture Off)

This adjust the brightness of the TV in order to reduce power

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

consumption. If you select Picture Off, the screen is turned

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

Auto Power Off (Off / On): The TV will be automatically turned

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

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

The PIN input screen appears before the setup screen

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

Refer to this information when connecting external devices to the

iew this information when your TV does not work properly or

regarding our call centers and how to download products and

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

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

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

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

USB Mass Storage Class (MSC) device.

□ Connecting a USB Device

when you want to upgrade the software. You can find information

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

Signal Strength: (Digital channels only) An HD channel's

Adjust your antenna to increase signal strength

Beset: Beset all settings to the factory defaults.

appears in the test picture, select Yes and follow the directions

problems. If the problem occurs during the test, select Yes and

eception quality is either perfect or the channels are unavailable.

Disabled when the PC is in power saving mode.

off when no user operation is received for 4 hours.

how guickly the TV switches to standby mode, if no picture is

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

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

button to select the channel. A \checkmark mark appears. Repeat to select additional channels. Then, open the Tools menu and apply a

- The maximum displayed number of files, including sub folders, in
 Supported Video Formats
- one folder of USB storage device is 2000. • The media may not be playing smoothly when using the device lower than USB 2.0.

Videos



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

Videos, and then press the ENTER 🔫 button 2. Press the $\triangleleft/\triangleright/\land/\lor$ 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. \circledast In this mode, you can play movie clips contained in a game,
- but you cannot play the game itself. Supported Subtitle Formats

External

-

Trouble Powering On

Name	File extension
MPEG-4 timed text	.ttxt
SAMI	.smi
SubRip	.srt
SubViewer	.sub
Micro DVD	.sub or .txt
SubStation Alpha	.ssa
Advanced SubStation Alpha	.ass

Name Container Format

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

File Container Video Codec Resolution Frame Bit Audic Extension Container Video Codec Resolution rate(fps) rate(Mbps) Code VIPEG4 SP AC3 ASP *.wmv *.mp4 H. 264 BP *.3gp AAC MP ion JPEG 340x480 WMA *.mpeg Nindov Media ideo vá -Law, -Law) 30 MPEG2

Other Restrictions

- Video content will not play, or not play correctly, if there is an error in the content or the container • Sound or video may not work if the contents have a standard
- bit rate/ frame rate above the compatible Frame/sec listed in the Supported Video Formats table. • If the Index Table erroneous, the Seek (Jump) function is not
- supported. • The menu may take longer to appear if the video's bit rate
- exceeds 10Mbps. Video content can not be played if there are many contents in ____ one file

Video Decoder

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

MPEG4 SP, ASP : - Below 1280 x 720: 60 frame max

– Above 1280 x 720: 30 frame max

H.263 is not supported. GMC is not support.

Audio Decoder

Supports up to WMA7, 8, 9 STD. 9 PRO. 10 PRO. WMA 9 PRO and WMA 10 PRO support 5.1 channel. (LBR mode of WMA Pro is not supported WMA Lossless is not supported.

Music



- 1. In the Media Play menu, press the ◄ or ► button to select Music, and then press the ENTER 🖼 button.
- 2. Press the $\langle / \rangle / \langle / \rangle$ buttons to select the desired Music in the file list.
- 3. Press the ENTER button or ► (Play) button.
- 🗞 During music playback, you can search using the ٵ and button
- 🛸 < (REW) and ► (FF) buttons do not function during
- Solution Media Play only displays files with MP3 and PCM file extension. Other file extensions are not displayed, even if they are saved on the same USB device.
- S If the sound is abnormal when playing MP3 files, adjust the Sound is abnormal when playing MP3 files, adjust the Sound S Equalizer in the Sound menu. (An over-modulated MP3 file may cause a sound problem.)
 - A \checkmark 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
- $\langle / \rangle / A / \nabla$ buttons to highlight a folder. 2. Press the TOOLS button, select Play Folder, and then press the ENTER 🚭 button.

	 If you find that you are having trouble powering on your Samsung television, there are a number of things to check it before making a call to the service department. If you happen to be using the TV as a monitor and the stand-by light only blinks for a few seconds when you press the power button, your PC is in sleep mode. To take your PC out of sleep mode, press a key on your keyboard or move the mouse. Then try turning your TV on.
	If you're sure your power cord, remote control, and PC are functioning properly, you may be having a cable issue. If you have a cable or satellite box, your TV may appear to be off because the cable or satellite box is not outputting a signal. To test the signal output of your cable or satellite box, press the guide or 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 Guide.
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.
The TV image does not look as good as it did in the store.	 If you have an analog cable/satellite box, upgrade to a digital set top box. Use HDMI or Component cables to deliver HD (high definition) picture quality. 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: 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 problem. Mobile phones used close to the TV (within 3.3ft) may cause noise in the picture on analog and digital channels.
Color is wrong or missing.	If you're using a component connection, make sure the component cables are connected to the correct jacks. Incorrect or loose connections may cause color problems or a blank screen.
There is poor color or brightness.	Adjust the Picture options in the TV menu. (go to Picture Mode / Color / Brightness / Sharpness) Adjust the Energy Saving option in the TV menu. (go to MENU - Setup - Eco Solution - Energy Saving) Try resetting the picture to 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.
The picture is black and white.	If you are using an AV composite input, connect the video cable (yellow) to the Green jack of Component Input 1 on the TV.
When changing channels, the picture freezes or is distorted or delayed.	 If connected to a cable box, please try to reset it. (Reconnect the AC cord and wait until the cable box reboots. It may take up to 20 minutes) Set the output resolution of the cable box to 1080i or 720p.
Sound Problems	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.
There is no sound or the sound is too low at maximum volume.	Check the volume of the device (Cable/Sat Box, DVD, Blu-ray, etc.) connected to your TV.
The picture is good, but there is no sound.	 If you are using an external device, check the device's audio output option Ex. you may need to change your cable box's audio option to HDMI 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 an inappropriate noise.	 Check the cable connections. Make sure a video cable is not connected to an audio input. For Antenna or Cable connections, check the signal information. A weak signal may cause sound distortion. Perform the Sound Test as explained above.
No Picture, No Video	
The TV will not turn on.	 Make sure the AC power cord is securely plugged into the wall outlet and the TV. Make sure the wall outlet is working. Try pressing the POWER button on the TV to make sure the problem is not the remote. If the TV turns on, refer to 'Remote control does not work' below.
The TV turns off automatically.	 Ensure the Sleep Timer is set to Off in the Time menu. If your PC is connected to the TV, check your PC power settings. Make sure the AC power cord is plugged securely into the wall outlet and the TV. When you are watching TV connected to an antenna or cable connection, the TV will turn off after 10 - 15 minutes if there is no signal.

- 9 -

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

There is no picture/video.	 Check the cable connections. (Remove and reconnect all cables connected to the TV and external devices). Set your external device's (Cable/Sat Box, DVD, Blu-ray etc) video outputs to match the connections to the TV input. For example, if an external device's output is HDMI, it should be connected to an HDMI input on the TV. Make sure your connected devices are powered on. Be sure to select the correct input source by pressing the SOURCE button on the remote control.
RF (Cable/Antenna) Connection	Reboot the connected device by reconnecting the device's power cable.
. ,	Make sum the ensure entry and a series of an encoded and units
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.
No Caption on digital channels.	Check the Caption Setup menu. Try changing Caption Mode Service 1 to CC1. 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 problem.
Others	
Purple/green rolling horizontal bars and buzzing noise from the TV speakers with Component cable connection.	Remove the left and right audio connections from the set-top-box. If the buzzing stops, this indicates that the set- top-box has a grounding issue. Replace the Component video cables with an HDMI connection.
The picture will not display in full screen.	 HD channels will have black bars on either side of the screen when displaying up scaled SD (4:3) contents. Black bars on the top and bottom appear when movies that have aspect ratios different from your TV play on the TV. Adjust the picture size option on your external device or change the TV to full screen.
The remote control does not work.	Replace the remote control's batteries. Make sure you insert them with the polarity (+/-) correct . Clean the transmission window located on the top of the remote control. Try pointing the remote directly at the TV from 5-6 feet away.
The cable/set top box remote control does not turn the TV on or off, or adjust the volume.	Program the Cable/Set top box remote control to operate the TV. Refer to the Cable/Set top box user manual for the SAMSUNG TV code.
A "Mode Not Supported" message appears.	Check the supported resolution of the TV and adjust the external device's output resolution accordingly. Refer to resolution settings in this manual.
Caption on the TV menu is greyed out.	You cannot select Caption in the TV menu when watching content from a device connected via HDMI or Component.
There is a plastic small from the TV	Caption must be activated on the external device. This small is permal and util discipate is a few days
There is a plastic smell from the TV. TV Signal Strength is unavailable in the	This smell is normal and will dissipate in a few days. This function is only available for digital channels received through an Antenna / RF/Coax connection.
Self Diagnosis Test menu.	
TV is tilted to the right or left side.	Remove the stand base from the TV and reassemble it. The Channel menu is only available when you select the TV source.
(unavailable). Your settings are lost after 30 minutes or every time the TV is turned off.	 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 []⁴.
You have intermittent loss of audio or video.	 Check the cable connections and reconnect them. Loss of audio or video can be caused by using overly rigid or thick cables. Make sure the cables are flexible enough for long term use. If mounting the TV to the wall, we recommend using cables with 90 degree connectors.
You see small particles when you look closely at the edge of the frame of the TV.	This is part of the product's design and is not a defect.
POP (TV's internal banner ad) appears on the screen.	Select Home Use under Plug & Play mode. For details, refer to Plug & Play (Initial Setup).

be a few bright or dark pixels on the screen. These pixels will have no impact on the performance of the product. Solution Watch these troubleshooting on video 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 \rightarrow Support \rightarrow 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.

- 14-

- 13 -



2. Press the $\triangleleft/ \triangleright / \land / \lor$ buttons to select a photo in the file list.

While a photo list is displayed, press the ► (Play) / ENTER → button on the remote control to start a slide show.

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

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

Media Play can play Music files automatically during a Slide

Sou cannot change the Mode in Background Music until the

Photo

Base-line

Progressive

1. On the File List screen, highlight a file, and then press the Yellow

Resolution

15360 x 8704

1024 x 768

3. Press the ENTER button or ► (Play) button.

• During the slide show, files are displayed in order.

You can move to other files using ◄ or ► button.

Show if Background Music is set to On.

CMYK, YCCK Color space JPEG are not supported.

Playing selected video/music/photo files

2. Repeat Step 1 to select multiple files.

• Supported Photo Formats

Image

JPEG

Other Restrictions

Playing Multiple Files

button on your remote.

Background Music file has finished loading.

Photos

NOTE



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.	\checkmark		
Repeat Mode	You can play movie and music files repeatedly.	\checkmark	\checkmark	
Picture Size	You can adjust the picture size to your preference.	\checkmark		
Picture Mode	You can adjust the picture setting.	\checkmark		\checkmark
Sound Mode	You can adjust the sound setting.	\checkmark	\checkmark	\checkmark
Subtitle Setting	You can play the video with Subtitles. This function only works if the subtitles have the same file name as the video.	~		
Audio Format	You can select the digital audio output format.	\checkmark		
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.			\checkmark
Background Music	You can set and select background music when watching a Slide Show.			~
Zoom	You can zoom into images in full screen mode.			\checkmark
Rotate	You can rotate images in full screen mode.			\checkmark
Information	You can see detailed information about the played file.	\checkmark	~	\checkmark

Settings

USB device.

the wall

License

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.

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

Other Information

Installing the Wall Mount Kit

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

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

Wall Mount Kit Specifications (VESA)

Solution 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.

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

- 11 -

🔊 NOTE

Family

LED-TV

of the TV.

tightly to the brackets.

professional installer.

screw specifications.

19~22

26~28

32~40

46~60

Securing the TV to the Wall

To prevent the TV from falling

Standard dimensions for wall mount kits are shown in the table

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

• Do not use screws that are longer than the standard dimension

or do not comply with the VESA standard screw specifications. Screws that are too long may cause damage to the inside of the TV set.

· When purchasing our wall mount kit, a detailed installation

manual and all parts necessary for assembly are provided.

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

screw specifications, the length of the screws may differ

 Do not fasten the screws too firmly. This may damage the product or cause the product to fall, leading to personal injury Samsung is not liable for these kinds of accidents.

· Samsung is not liable for product damage or personal injury

when a non-VESA or non-specified wall mount is used or the

Quantity

M4

M6

M8

Do not install your Wall Mount Kit while

ersonal injury due to electric shock.

your TV is turned on. It may result in

consumer fails to follow the product installation instructions

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

Product TV size in VESA screw hole specs Standard

inches (A * B) in millimeters Screw

75 X 75

100 X 100

200 X 200

400 X 400

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

children do not hang over or destabilize the TV; doing

so may cause the TV to tip over, resulting in serious injuries or death. Follow all safety precautions provided

on the included Safety Flyer. For added stability, install

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

3. Connect the brackets on the TV and the brackets on the wall

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

Untie the string or cable before moving the TV. 🔊 To purchase a TV Holder kit, contact Samsung customer

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.

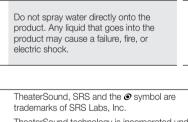
with a strong string or cable, and then tie the string or cable

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

Always have two people mount the TV on a wall.

depending on the wall mount specifications.

🗞 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.



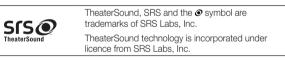
Clean the product with a soft cloth dampened with in a small amount of water. Do not use a flammable liquid (e.g. benzene, thinners) or a cleaning agent.

SRS TheaterSound[™] provides the most immersive

surround sound experience from the TV's built-in

speakers, while maintaining steady volume and

delivering rich bass and clear dialog.



DivX Certified® to play DivX® video up to HD 1080p, including premium content.

ABOUT DIVX VIDEO: DivX® is a digital video format created by DivX, LLC, a subsidiary of Rovi Corporation. This is an official DivX Certified® device that plays DivX video. Visit divx. com for more information and software tools to convert your files into DivX videos. ABOUT DIVX VIDEO-ON-DEMAND: This DivX Certified® device must be registered in order to play purchased DivX Video-on-Demand (VOD) movies. To obtain your registration code, locate the DivX VOD section in your device setup menu. Go to vod. divx. com for more information on how to complete your registration. Covered by one or more of the following U.S. patents : 7,295,673; 7,460,668; 7,515,710; 7,519,274 DivX®, DivX Certified® and associated logos are trademarks of Rovi Corporation or its subsidiaries and are used under license.

	nd		
worldwide patents issued & pending. DTS, the Symbol, & DTS and the Symbol together are registere trademarks & DTS 2.0+Digital Out is a trademark of DTS, Inc. Product includes software. © DTS, Inc. Rights Reserved.			
	worldwide patents issued & pending. DTS, the Symbol, & DTS and the Symbol together are registered trademarks & DTS 2.0+Digital Out is a trademark of DTS, Inc. Product includes software. © DTS, Inc. All Rights Reserved.		
	r		
Open Source License Notice			
Open Source used in this product can be found on the following webpage. (http://opensource.samsung.com) Open Source License Notice is written only English.			
To send inquiries and requests for questions regarding open sources, contact Samsung via Email (oss.request@samsung.com).			

This product uses some software programs which are distributed under the Independent JPEG Group. ICU License - ICU 1.8.1 and late

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Kensington Lock

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

information on proper use.

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

Assembling the Cable manager



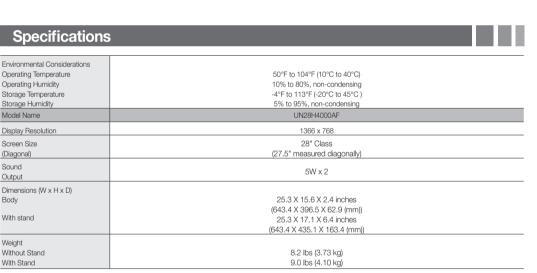
Display Modes (HDMI/DVI Input)

Jptimai re	solution: 136	6 X 768@6	UHZ				
Mode	Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H / V)	1366 x 768	1920 x 1080
IBM	640 x 350	31.469	70.086	25.175	+/-	~	\checkmark
IDIVI	720 x 400	31.469	70.087	28.322	-/+	\checkmark	~
	640 x 480	35.000	66.667	30.240	-/-	\checkmark	\checkmark
MAC	832 x 624	49.726	74.551	57.284	-/-	\checkmark	\checkmark
	1152 x 870	68.681	75.062	100.000	-/-		\checkmark
	640 x 480	31.469	59.940	25.175	-/-	\checkmark	\checkmark
	640 x 480	37.861	72.809	31.500	-/-	\checkmark	\checkmark
	640 x 480	37.500	75.000	31.500	-/-	\checkmark	\checkmark
	800 x 600	37.879	60.317	40.000	+/+	\checkmark	\checkmark
	800 x 600	48.077	72.188	50.000	+/+	\checkmark	\checkmark
	800 x 600	46.875	75.000	49.500	+/+	\checkmark	\checkmark
	1024 x 768	48.363	60.004	65.000	-/-	\checkmark	\checkmark
	1024 x 768	56.476	70.069	75.000	-/-	\checkmark	\checkmark
	1024 x 768	60.023	75.029	78.750	+/+	\checkmark	\checkmark
VESA DMT	1152 x 864	67.500	75.000	108.000	+/+		\checkmark
	1280 x 720	45.000	60.000	74.250	+/+	\checkmark	\checkmark
	1280 x 800	49.702	59.810	83.500	-/+		\checkmark
	1280 x 1024	63.981	60.020	108.000	+/+		\checkmark
	1280 x 1024	79.976	75.025	135.000	+/+		\checkmark
	1366 x 768	47.712	59.790	85.500	+/+	\checkmark	\checkmark
	1440 x 900	55.935	59.887	106.500	-/+		\checkmark
	1600 x 900RB	60.000	60.000	108.000	+/+		\checkmark
	1680 x 1050	65.290	59.954	146.250	-/+		\checkmark
	1920 x 1080	67.500	60.000	148.500	+/+		\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 efficient features like the Eco Sensor or the Energy Saving feature. Follow the steps below with your remote to turn these features off or on.
	• Energy saving : Menu → Setup → Eco Solution → Energy Saving →Select Settings
Component Connections / Screen Color	If you find that the color on your Samsung television's screen is not correct or black and white, first run a Self Diagnosis Test on the TV to make sure there are no device issues.
	• Self Diagnosis : User Menu \rightarrow Support \rightarrow Self Diagnosis \rightarrow Picture Test
	• If the test is ok, try making sure ;
	Your connections are all consistent. For example, if you've used the AV In jack on your TV, make sure you have used the AV Out jack on your video source.
	• Try making sure you have connected to the correct jacks. For example, if you use the Component jacks, labeled Pb, Pr, and Y, to connect your TV and video source, make sure you have connected the blue Pb jack on the video source to the blue Pb jack on the TV, the red Pr jack on the source to the red Pr jack on the TV.
Screen Brightness	If you find that the colors on your Samsung TV are correct but just a little too dark or bright, there are some settings you should check before calling for a repair.
	 Backlight, Contrast, Brightness, Sharpness, Color, Tint 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 \rightarrow Setup \rightarrow Time \rightarrow 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 \rightarrow Setup \rightarrow Eco Solution \rightarrow No Signal Power
	• Auto Power Off : User Menu \rightarrow Setup \rightarrow Eco Solution \rightarrow Auto Power Off



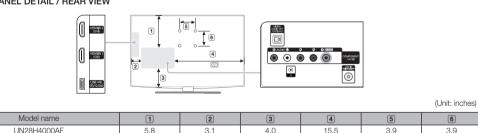
Design and specifications are subject to change without prior notice.

This device is a Class B digital apparatus.

For information about the power required and more about power consumption, refer to the label attached to the product. Typical power consumption is measured according to Energy Star Program requirements for televisions.

Dispose unwanted electronics through an approved recycler. To find the nearest recycling location, go to our website: www. samsung.com/recyclingdirect or call, (877) 278-0799.

■ JACK PANEL DETAIL / REAR VIEW



UN28H4000AF 5.8 3.1 3.9 NOTE: All drawings are not necessarily to scale. Some dimensions are subject to change without prior notice. Refer to the dimensions prior to performing installation of your TV. Not responsible for typographical or printed errors. © 2014 Samsung Electronics America, Inc