

user manual

Figures 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

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

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To add channels to the Added Channels list, follow these steps: 1. Select one or more channels in the All Channels list using the ▲/▼

- buttons and the Yellow (Select) button on your remote. 2. Press the TOOLS button on your remote. The Tools menu appears.
- 3. Select Add in the Tools menu, and then press the ENTER 🕞 button. All deleted channels are shown on the All Channels list. You add
- hannels back to the Added Channels list on the All Channels list.
- A grav-colored channel indicates the channel has been deleted from 5. ne Added Channels list.
- 🗞 The Add menu option only appears for deleted channels Add to Favorite /Delete from Favorite TOOLST: Lets you add
- channels to and delete channels from your Favorites list. To add channels to the **Favorites** list, follow these steps:
- Select one or more channels in the All Channels list using the ▲/▼ buttons and the Yellow (Select) button on your remote. 2. Press the TOOLS button on your remote. The Tools menu appears.
- 3. Select Add to Favorite in the Tools menu, and then press the ENTER 🕂 button
- To delete channels from the Favorites list, follow these steps:
- Select one or more channels in the Favorite Channels list using the ▲/▼ buttons and the Yellow (Select) button on your remote. 2. Press the TOOLS button on your remote. The Tools menu appears. 3. Select Delete from Favorite in the Tools menu, and then press the
- ENTER 🕑 button. Timer Viewing: You can schedule a channel to be displayed automatically at a set time, even when you are watching another channel. You must set the current time first in the Time > Clock
- function to use Time Viewing. To schedule a channel, follow these steps:
- 1. Select a channel in the Added Channels list using the ▲/▼ buttons
- and the Yellow (Select) button on your remote 2. Press the TOOLS button on your remote. The Tools menu appears. 3. Select Time Viewing in the Tools menu, and then press the



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

Still image warning

Contact SAMSUNG WORLDWIDE

Country

Customer Care Center 🕿

Web Site

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🔊 If you select Everyday or Every Week, the date you select in the

Date field becomes the start date for your scheduled viewing.

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

elect **Once**, the TV will turn on once, on the date and time you

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

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

digital program list. If you highlight a program in the list, and then press the ENTER [] (Schedule) button, you set Timer Viewing for

Channel Name Edit: Analog channels only. Lets you assign a name

of up to five characters to an analog channel. For example, Hist,

Food, Golf, etc. This makes it easier to find and select a channel.

You can only select **Deselect All** when one or more channels are

Deselect All: Deselect all the selected displayed channels.

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

Auto Program: See Auto Program under Memorizing Channels.

Programmed List (on the Channel List Screen)

The **Programmed** list displays the channels and programs you have

scheduled for viewing using the Time Viewing function. You can view

Change Info: Change the scheduling information for a show or

Programmed List screen Tools menu.

1. Select the **Programmed** List icon on the left side of the **Channel List** screen, and then press the ENTER 🖼 button.

On the Programmed List screen, select the show or channel entry you want to change, and then press the TOOLS button. The Tools

3. Select **Change Info**, and then press the ENTER I button. The

4. Lise the 4/b buttons to move from entry field to entry field and the

A/♥ buttons to charge the entries. Where numbers are displayed, you can also enter numbers directly using the number keypad on

Cancel Schedules: Cancel a show or channel you have scheduled.

1. Select the **Programmed** List icon on the left side of the **Channel List** screen, and then press the ENTER button.

On the Programmed List screen, select the show or channel entry you want to cancel, and then press the TOOLS button. The Tools

3. Select **Cancel Schedules**, and then press the **ENTER** + button.

To cancel a scheduled show or channel, follow these steps:

For Everyday, the TV will turn on every day, at the time you

Press the ENTER I button on your remote when done.

Scheduled programs and channels are displayed in the

Soly Added Channels can be scheduled.

Programmed List Screen Tools Menu

To change the information, follow these steps:

channel vou have scheduled.

Time Viewing screen appears.

Press the ENTER 🕑 button when done.

he Cancel Schedule screen appears

4. Select OK, and then press the ENTER I button.

Menu appears

vour remote.

Menu appears.

 \bigcirc Channel List \rightarrow Programmed \rightarrow TOOLSE

Programmed List

that program directly

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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 image burn-i (image retention) on the LED screen, which will affect image quality. To reduce the risk of this effect, please follow the recommendations below

SERIES 45

4000

4050

5000

5050

to Samsung products, pleas

Samsung Electronics

Ridgefield Park, NJ 07660

ww.samsung.com/us

Challenger Roa

U.S.A

- 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 details.

The On Screen Menus

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

		9	
 Picture 	 Sound 	 Channel 	 Setup
Input	 Application 	 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 menus.

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 room brightness Movie: Darkens the screen, making it less glary. Suitable for watching s in a darkened room
- Entertain: Sharpens the picture. Suitable for games Solution \mathbb{N} Only available when the **TV** is connected to a **PC**.

- Samsung MagicAngle (for 19", 22" models Adjust screen viewing Angle to optimize screen quality according to your
- Samsung MagicAngle: When viewing the screen at an angle from below or above by setting the appropriate mode for each position you
- can obtain a similar picture quality as viewing the screen directly from the front. Off: Select when viewing from the front position.
- Lean Back Mode: Select when viewing from a slightly lower position. Standing Mode: Select when viewing from the upper position. Mode: Adjust screen viewing angle.
- When Samsung MagicAngle is set to Lean Back Mode or Standing Mode, Gamma is not available. 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
- 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.

■ Information: Display the information for a show or channel you have

Select the Programmed List icon on the left side of the Channel

2. On the Programmed List screen, select the show or channel entry

3. Select Information, and then press the ENTER 🚭 button. The

4. Select Change Info and press the ENTER I button to change

information, or select Close and press the ENTER I button to

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

Lets you select the channel list displayed when you press the \wedge CH \vee

(Channel) button on your remote. For example, if you select Favorite

Channels, you will only see Favorite channels when you press the

If the reception is clear, you do not have to fine tune the channel, as

signal is weak or distorted, fine tune the channel manually.

Select the channel and then select Fine Tune

select Reset on the Fine Tune screen

this is done automatically during the search and store operation. If the

Fine tuned channels that have been saved are marked with an

asterisk "*" on the right-hand side of the channel number in the

S To reset fine-tuning, select the channel, select **Fine Tune**, and then

ou want information for, and then press the TOOLS button. The

scheduled. You can also change the schedule Information

List screen, and then press the ENTER I button.

Other Channel Menu Functions

Tools Menu appears.

Channel Mode

Analog channels only.

Fine Tune

Timer Viewing Info screen appears.

close the Information screen.

When the TV is connected to a PC, you can only make changes to Backlight, Contrast, Brightness, and Sharpness.

Gamma and White Balance. Dynamic Contrast: Adjusts the screen contrast Black Tone: Selects the black level to adjust the screen depth. Darker

Tint: Adjusts the amount of green and red in the picture. As you

ncrease the amount of green, the amount of red decre

Advanced Settings

Available in Standard and Movie mode only.

- settings make blacks look darker Flesh Tone: Adjusts the amount of red in skin tones Color Space: Auto automatically matches the range of colors (the variety and number of colors) available to create pictures with the color range of the video source. Native provides a color range wider
- han the color range of the video source. White Balance: Adjusts the color temperature of the picture so that white objects look white (instead of, for example, slightly pink or slightly vellow) and the overall color of the picture looks natural.
- R-Offset / G-Offset / B-Offset: Adjusts how dark each color (red, green, blue) is. R-Gain / G-Gain / B-Gain: Adjusts how bright each color (red, green,
- Reset: Resets the White Balance to it's default settings.
- **Gamma**: Adjusts the primary color intensity. Motion Lighting: When on, the TV automatically adjusts the
- brightness of the screen in response to the brightness of the room. In bright light, the screen brightens. In dim light, the screen dims. Available in **Standard** mode only.

Picture Options

- 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 makes the picture bluer (cooler). Warm 1 and Warm
- make the picture redder (warmer) Warm1 and Warm2 are deactivated when the picture mode is set
- Dynamic 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 size as well. However, we highly recommend you use the TVs 16:9 mode
- most of the time. 16:9: Sets the picture to the 16:9 wide screen format. Zoom1: Provides moderate magnification of the picture. Sides, top, and bottom are cut off.
- Zoom2: Provides larger magnification of the picture. Sides, top, and bottom are cut off. Wide Fit: Enlarges the aspect ratio of the picture so the picture fits
- 4.3: Sets the picture to the old 4.3 format and puts black or grav
- porders on the right and left of the picture. Do not watch your TV in the 4:3 format for a long time. Traces of borders displayed on the left, right and center of the screen may cause image retention (screen burn) which is not covered by the
- Screen Fit: Displays the full image without any cut-off when your TV is inputting HDMI (720p / 1080i / 1080p) or Component (1080i / 1080p -ID signals
- HD (High Definition) has a 16:9 aspect ratio and 1080i/1080p (1920x1080) or 720p (1280x720) resolution

- 2

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

If you selected Auto:

- The TV will automatically download the correct time from a digital channel. Select **Time Zone**, and then press the **ENTER** 🖼 button. Use the▲/▼ buttons to select your **Time Zone**, and then press
- Select DST (Daylight Savings Time), and then press ENTER 4. Select On if you want to turn the DST adjustment, on and off manually. Select Off to turn off the DST adjustment. Select Auto if you want the TV to adjust to DST automatically. Press ENTER
- DST and Time Zone function are only available when the Clock Mode is set to Auto

If you selected Manual:

The **Clock Set** screen appears. Use the $\blacktriangle/\checkmark$ 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

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.

Timer 1 / Timer 2 / Timer 3

- 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/ fields for **On Time** and **Off Time**. Use the **4**/**>** buttons to move from field to field. Use the ▲/▼ 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 **∢**/**>** 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
- 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 the JSB device:
- The maximum number of files the TV can display, including sub olders, in one folder of a USB storage device is 2000. 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 **G** button. The TV displays a single folder (the Root folder) and the type or name of the

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

Language

- Set the menu language. Schoose between English, Español, and Français.
- Setting the Time
- Time
- $^{\odot}$ 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
- S If you disconnect the power cord, you have to set the clock again.

🗞 You can adjust and store settings for each external device you have 🛛 🗞 You can only select a language from among the ones being connected to an input on the TV. Picture Sizes available by Input Source are listed below:

Multi-Track Sound

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

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

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

aving difficulty receiving a stereo signal.

foreign-language translation

when the modulation signal is low.

on the input source.

when done (0ms ~ 250ms).

sound through both.

speakers will be mute

Resets all sound settings to the factory

Visual Impaired

Digital channels only.

Sound Reset

- 3 -

Speaker Select

SPDIF Output for 32" and above models

Stereo: Select for channels that are broadcasting in stereo

Because each station has its own broadcasting conditions, the

volume may fluctuate each time you change the channel. This feature

automatically adjusts the volume of a channel by lowering the sound

The SPDIF (Sony Philips Digital InterFace) outputs an uncompressed

Audio Format: You can select the Digital Audio output (SPDIF)

By connecting the TV to a receiver or home theater with **Dolby**

digital audio signal when you connect the digital audio jack on the back of the TV to a digital audio in jack on a receiver or home theater.

format. The available Digital Audio output format may differ depending

Digital and 5.1ch speakers and selecting Dolby Digital, you can maximize your interactive 3D sound experience.

Audio Delay: Lets you correct timing mismatches between the audio

track and the video when you are watching the TV and listening to

digital audio output from the TV through an external device such as

an AV receiver. When you select **Audio Delay**, a slider appears. Use the left and right arrow buttons to adjust the slider. Press ENTER

If you are listening to the sound track of a broadcast or movie through an

external receiver, you may hear a sound tack of a broadst of mine mough a decoding speed between the TV's speakers and the speakers attached

to your audio receiver. If this occurs, set the TV to External Speaker.

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

When Speaker Select is set to External Speaker, the VOLUME

If there is no video signal, both the TV's speakers and the external

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

speakers are turned off. You will hear sound through the external speakers only. When you set **Speaker Select** to **TV Speaker** both

the TV's speakers and the external speakers are on. You will hear

and MUTE buttons will not operate and the sound settings will be

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

Analog channels only

Auto Volume

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

Digital Clean View: If the broadcast signal received by your TV is weak, you can activate the Digital Clean View feature to reduce any static and chosting that may appear on the scree When the signal is weak, try all the Digital Clean View options until

the TV displays the best picture ■ MPEG Noise Filter: Reduces MPEG noise to provide improved HDMI Black Level: For HDMI signals, select the black level to adjust

ne screen depth. Low make blacks look darker. Available only in **HDMI** mode (RGB signals).

Film Mode: Sets the TV to automatically sense and process film signals from all sources and adjusts the picture for optimum quality

Available in ATV, DTV (interlace), AV, COMPONENT (480i / 1080i) and HDMI (480i / 1080i).

LED Clear Motion: Removes drag from fast scenes with a lot of novement to provide a clear picture

Picture Reset 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 speake 100Hz / 300Hz / 1KHz / 3KHz / 10KHz (Bandwidth Adjustment): Adjusts the loudness of specific bandwidth frequencies

Reset: Resets the equalizer to its default settings.

DTS TruSurround

Available in Standard sound mode only. DTS TruSurround is a patented DTS 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 system, including internal television speakers. It 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

2. Press the ENTER 🕞 button. A list of folders on the device appears. If there are no folders on your device, press the Yellow (Select) button to select the Root folder, and then press the RETURN button. The Timer screen re-appears.

 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.

■ 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 *A*/*▶* buttons to highlight the day, and then pressing the ENTER → button. To unselect a day, highlight it, and then press the ENTER 🗗 button.

When you are finished making all your selections on the Timer screen, press either the ENTER 🕞 or RETURN button.

Other Features

Game Mode When you connect a game console such as a PlayStation™ or Xbox™

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 • 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.

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 nanges, you must enter a PIN (personal identification number). To Solution Program Rating Lock is not available in HDMI or Component

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 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 Program Rating Lock screen appears, select Program Rating Lock, and then press ENTER . Select **O**n, and then press the ENTER E key again. Depending on what type of programs or movies vou want to block, select one of the options on the screen, and then ess the ENTER 🕞 button. The options are listed below: **TV Parental Guidelines**: You can block TV programs based on their

ratings. This function allows you to control what your children are MPAA Rating: You can block movies based on their MPAA ratings. The Motion Picture Association of America (MPAA) has implemente a rating system that provides parents or guardians with advanced information on which films are appropriate for children.

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

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

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

content, lock are square store and a lock of 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 to your TV, you can enjoy a more realistic gaming experience by turning Change PIN: The Change PIN screen will appear. Choose any 4

digits for your PIN and enter them in Enter New PIN fields. He-enter the same 4 digits in Confirm New PIN fields. When the Change PIN screen disappears, press the OK button. The TV has memoriz

 $^{\otimes}$ 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 ot available, they will not be displayed on the screer 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 Service1~6 may not be available in digital caption mode depending
- 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

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.

Self Diagnosis

on the screen.

- Picture Test: Use to check for picture problems. If the problem appears in the test picture, select Yes and follow the directions on
- Sound Test: Lise the built-in melody 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 guality is either perfect or the channels are unavailable. Adjust your antenna to increase signal strength.

Channel Menu

Memorizing Channels

If you are not using a cable box or satellite box, when you first set up your TV using **Plug & Play**, the TV memorized the channels that were variable over the air or through your cable system and added them to the **Channel List**. The **Antenna** and **Auto program** functions described pelow let you re-run the channel memorization function without having to e-run the Plug & Play procedure.

Antenna (Switch to Cable / Switch to Air TOOLSE) 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 > Antenna > An 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 picture. Auto Program

- The ${\bf Auto~Program}$ function memorizes all channels that are available over the air or through your cable system and adds them to the ${\bf Channel}$
- If your TV is connected to a cable box or satellite box, you do not need to run Auto Program. You will use the tuner in the box, not the tuner in the TV, to select channels. To start Auto Program, follow these steps
- 1. Push MENU → Channel → Auto Program → ENTER → on your ♥ Favorite: Shows all favorite channels. remote. The Antenna Source screen appea 2. On the Antenna Source screen, select the source of your TV signal.
- Air If your TV is connected to an antenna choose Air, and then press

ENTER I. The TV will automatically start memorizing channels.

Cable If your TV is connected to a cable outlet, choose Cable, and then press ENTER . Go to Step 3.

- Auto If you choose Auto, and then press ENTER I, the TV will automatically select the correct Antenna source. Go to Step 3.
- 3. On the Cable Type screen, use the $\langle / \rangle / \langle \rangle$ buttons to select the type of digital and analog cable systems you have: STD, HRC, or IRC. Most systems are STD (Standard). When done, select Start,
- and then press ENTER . The TV will start memorizing channels Channel memorization can take up to 45 minutes, depending on vour cable system.
- Memorized channels are added to the Added Channels list. These are the channels you will see when you use the Channel buttons on **The Channel List Tools Menu**

Clear Scrambled Channel

This function filters out scrambled channels after **Auto Program** is completed. This process may take 20~30 minutes. Press the ENTER I button to stop Clear Scrambled Channel This function is only available in Cable mode

background color of the captions. The default is Black.

Background Opacity: This adjusts the opacity of the caption

ackground. Options include Default, Transparent, Translucent, Solid

Return to Default: This option sets each Size, Font Style, Foregroun

Color, Background Color, Foreground Opacity and Background

Digital Caption Options are available only when you can select

The Foreground and Background cannot be set to the same color.

• When no sound is output from the TV because the MUTE button

When no sound is output from the TV because the volume has been reduced to minimum with the VOL – button.

efault and Service1 ~ Service6 in Caption Mode

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

• When the TV is turned off by Sleep Timer function.

Eco Sensor for 5 series 32" and above : To enhance your pow

avings, the picture settings automatically adapt to the light in the

S If you adjust the Backlight, the Eco Sensor will be set to Off.

Min. Backlight: When Eco Sensor is On, the minimum screen

If Eco Sensor is On, the display brightness may change (be

■ No Signal Power Off: Sets how quickly the TV switches to standby

Disabled when an attached PC is in power saving mode.

If a still image remains on the screen for an amount of time you define.

the screen saver is activated to prevent the formation of ghost images

Auto Power Off: The TV will automatically turn off when no user operation is detected for 4 hours.

Default, Transparent, Translucent, Solid and Flashing

and Flashing.

Melody

Opacity to its default.

The Melody does not play:

has been pressed.

Eco Solution

o turn on the screer

brightness can be adjusted manually

ode if no picture is being received.

Auto Protection Time

Support Menu

Background Color: Options include Default, White, Black, Red, Reset: Reset all settings to the factory defaults Green, Blue, Yellow, Magenta and Cyan. You can change the

The PIN input screen appears before the setup screen Enter your 4-digit PIN. Change the PIN using the Change PIN Foreground Opacity: This adjusts the opacity of text. Options include

Software Upgrade

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

HD Connection Guide

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

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

MEDIA.P

2013-08-08 9:45:50

/ledia Play

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

Energy Saving : Lets you adjust the brightness of the TV to reduce power consumption. If you select Picture Off, the screen is turned off, but the sound remains on. Press any button except the volume button Connecting a USB Device

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

Using the Media Play Menu

To open Media Play in the Menu, follow these steps: slightly darker in most cases) depending on the surrounding light **1.** Application 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.
- 3. 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
- Need-to-Know List before using Media Play (USB)
- Supported file systems are FAT and NTFS.
 Certain types of USB Digital camera and audio devices may not be compatible with this TV. • Media Play only supports USB Mass Storage Class (MSC) devices. MSC is a Mass Storage Class Bulk-Only Transport device. Examples of MSC are Thumb drives and Flash Carc
- Readers. Devices should be connected directly to the TV's USE port. USB HDD is not supported. Before connecting your device to the TV, please back up your files
- to protect them from damage or loss of data. SAMSUNG is not responsible for any data file damage or data loss. • A USB device that requires high power (more than 0.5A) may not be supported.
- Do not disconnect the USB device while it is loading. The higher the resolution of the image, the longer it takes to display on the screen.
- If a file is corrupted or the TV does not support the file type, the "Not Supported File Format" message appears.

Managing Channels Channel List

♥ TV #6

♥ TV #9

Air 🛛 Zoom 🔳 Select 🔎 Tools 🕨 Next Pro

scheduled using Timer Viewing.

lcons

icon using the ▲/▼ buttons to view each list.

function to the channels you selected.

menus may differ depending on the situation.)

Display Icons Used in the Channel List Screens

Next Program): Displays next programs.

A selected channel.

A reserved program

A program currently being broadcast.

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

view, select a list screen, select a channel, and then press the TOOLS

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

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

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

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

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

▲/▼ buttons and the Yellow (Select) button on your remot

on the All Channel, Added Channels, and Favorite List screens

A Favorite channel.

 \bigcirc Channel List \rightarrow TOOLS

List functions

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. Select a channel to watch on the All Channels, Added Channels, or Favorite screen by pressing the ▲/▼ buttons, and then essing the ENTER 🗬 button If you use a cable box or satellite box, you cannot use the Channel

Channel List Screens icons are listed on the left side. Select an

■ 🦓 All Channels: Shows all currently available channels including those you deleted from the Added Channels list

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.

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

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

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

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

Meaning

channels that appear when you press the CH button.

- The TV cannot play MP3 files with DRM that have been (DRM) is a technology that supports the creation, distribution, and management of digital content in an integrated and comprehensive way, including protecting the rights and interests of content providers, preventing illegal copying of contents, and
- managing billing and settlements. PTP 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. If the TV has no input during the time period set in Auto
- Protection Time, the Screensaver will run.
- The power-saving mode of some external hard disk drives may be released automatically when you connect them to the TV.
- If you use a USB extension cable, the TV may not recognize the USB device or may not be able to read the files on the device.
- If a USB device connected to the TV is not recognized, the list of files on the device is corrupted, or a file in the list is not played, connect the USB device to a PC, format the device, and check he connection
- If a file you deleted from the PC is still found when you run Media Play, use the "Empty the Recycle Bin" function on the PC to permanently delete the file.
- Photos only supports the sequential jpeg format. The Videos option does not support the scene search and
- thumbnail functions. • 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 some folders may not open.
- The maximum number of files the TV can display, including sub folders, in one folder of a USB storage device is 2000.
- The media may not play smoothly if you use a USB device rated lower than USB 2.0.

Videos

- In the Media Play menu, press the
 or
 button to select Videos, and then press the ENTER
 button.
 2. Press the $\langle \rangle / \langle \rangle$ buttons to select a video in the file list.
- 3. Press the ENTER 🕒 button or 🕨 (Play) button.
- If video time information is unknown, playing time and the progress
 The menu may take longer to appear if the video's bit rate exceeds
 The menu may take longer to appear if the video's bit rate exceeds bar are not displayed
- During video playback, you can search using the ◀ and ►
- No this mode, you can play movie clips contained in a game, but you cannot play the game itself.

Advanced SubStation Alpha

MPEG-4 Timed text

SubRip

The picture is good but there is no sound.

The speakers are making an inappropriate

Sound Problem

No Picture, No Video

The TV will not turn o

The TV turns off automatically

There is no picture/video

RF(Cable/Antenna) Connection

No Caption on digital channels.

small block, dots, pixelization.

Purple/green rolling horizontal bars and buzzing noise from the TV speakers with Component cable connection.

The picture will not display in full screen

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

A "Mode Not Supported" message

Caption on the TV menu is greyed out.

There is a plastic smell from the TV.

TV is tilted to the right or left side.

The Channel menu is greyed out

Your settings are lost after 30 minutes or every time the TV is turned off.

(unavailable).

V Signal Strength is unavailable in the

The remote control does not work

Others

The TV is not receiving all channels

-

	oported Subtitle Formats External			
	Name	Fi	le extension	
	MPEG-4 timed text			.tt×t
	SAMI			.smi
	SubRip			.srt
	SubViewer		.sub	
	Micro DVD		.sub or .txt	
	SubStation Alpha		.ssa	
	Advanced SubStation Alp	ha	.ass	
-	Internal			
	Name		ontainer	Format
	Xsub		AVI	Picture Format
	SubStation Alpha		MKV	Text Format

MKV

MKV

MP4

Text Format

Text Format

Text Format

Perform the Sound Test to confirm your TV's audio is working properly

If the audio is OK, the sound problem may caused by the source or signal.

(Go to MENU - Support - Self Diagnosis - Sound Test)

There is no sound or the sound is too low at Check the volume control of the device (Cable/Sat Box, DVD, Blu-ray, etc.) connected to your TV

• Perform the Sound Test as explained above.

• 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 your connected devices are powered on.

Make sure the wall outlet is working.

Verify the antenna is r

SAMSLING TV code

ettings in this manual.

This smell is normal and will dissipate over time

Remove the stand base from the TV and reassemble it

· Some channels may not have caption data

File ixtension	Container	Video Codec	Resolution	Frame rate (fps)	Bit rate (Mbps)	Audio Codec
		Divx3.11/4.x/ 5.1/6.0	1920x1080	6~30	30Mbps	
*.mp4	MP4	H264	1920x1080	6~30	30Mbps	MP3 / ADPCM
		AVC	1920x1080	6~30	30Mbps	AAC
		MJPEG	640x480	6~30	10Mbps	
		Divx3.11/4.x/ 5.1/6.0	1920x1080	6~30	30Mbps	"MP3 / AC3 /
"*.avi *.mkv"	"AVI MKV"	MPEG4 SP/ ASP	1920x1080	6~30	30Mbps	LPCM /
.111KV	IVITXV	H264	1920x1080	6~30	30Mbps	/ DTS
		MJPEG	640x480	6~30	10Mbps	Core"
	Divx 3.11/4.x/ 5.1/6.0	1920x1080	6~30	30Mbps	"MP3 / AC3 / LPCM /	
.wmv	"*.asf *.wmv" ASF	MPEG4 SP/ ASP	1920x1080	6~30	30Mbps	ADPCN / WMA
		H.264	1920x1080	6~30	30Mbps	/ WMA Pro"
"*.ts		MPEG2	1920x1080	6~30	30Mbps	AC3 /
*.trp *.tp *.m2ts*	TS	H. 264 BP/ MP/HP	1920x1080	6~30	30Mbps	AAC / MP3 / DD+ / HE-AAC
"*.dat		MPEG1	1920x1080	24/25/30	30Mbps	AC3 /
*.mpg	PS	MPEG2	1920x1080	24/25/30	30Mbps	MPEG
*.mpeg *.vob"	H. 264 BP/ MP/HP	1920x1080	6~30	30Mbps	AAC	
*.3gp	3GPP	MPEG4 SP/ ASP	1920x1080	6~30	30Mbps	MP3
- 51-		H.264	1920x1080	6~30	30Mbps	
	flash	H.264	1920x1080	6~30	30Mbps	
*.flv	formats	Sorenson H.263	1920x1080	6~30	30Mbps	MP3

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. - The file name is displayed on the top of the screen with the playing • If the Index Table contains an error, the Seek (Jump) function will not

 - 10Mbps. • Video content may not be play if there is too much content 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.

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 if you have the cable box's audio output connected to your TV using an HDMI cable.

When you are watching a TV connected to an antenna or to a cable connection, the TV will turn off after 10 - 15 minutes if there is no signal.

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 HDIMI, it should be connected to an HDMI input on the TV.

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)

Permove 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.

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

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

• Replace the remote control batteries. Make sure you install the new batteries with their polarity (+/-) correct.

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

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

You cannot select **Caption** in the TV menu when watching content from a device connected via HDMI or Component.
 Caption must be activated on the external device.

• Reboot the connected device by unplugging and then reconnecting the device's power cable.

For Antenna or Cable connections, check the signal information. A weak signal may cause sound distortion.

Try pressing the POWER button on the TV to make sure the problem is not caused by the remote. If the TV turns on, refer to 'Remote control does not work' below.

 Be sure that the TV is set to the correct source by pressing the SOURCE button on the remote control. • Reboot the connected device by unplugging and then reconnecting the device's power cable.

Check the cable connections. Make sure a video cable is not connected to an audio input

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

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

Check the Caption Setup menu, Try changing Caption Mode Service1 to CC1.

The picture is distorted: macroblock, error, • Compression of video contents may cause picture distortion, especially on fast moving pictures such as sports and action

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

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.

A weak signal can cause picture distortion. This is not a TV problem

Audio Decoder

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

Music

- In the Media Play menu, press the ◄/► buttons 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
- 3. Press the ENTER I button or I (Play) button.
- Suring music playback, you can search using the </i>
 ✓ buttons.
 ✓ (REW) and ► (FF) buttons do not function during play.
- Media Play only displays files with MP3 file extensions. Other file extensions are not displayed, even if they are saved on the same USB device.
- If the sound is abnormal when plaving MP3 files, adjust the Equalizer in the Sound menu. (An over-modulated MP3 file may cause a sound problem.)

Photos

- 1. In the Media Play menu,, press the ◄ or ► button to select Photos, then press the ENTER + button.
- 2. Press the $\langle \mathbf{A} \rangle = 0$ buttons to select a photo in the file list. **3.** Press the ENTER button or ► (Play) button.
- NOTE
- While a photo list is displayed, press the 🕨 (Play) / ENTER 🗬 button on the remote control to start a slide show. All files in the file list section will be displayed in the slide show.
 During the slide show, files are displayed in order.
- During the slide show, you can adjust the slide show speed using
 (I=4) (REW) or (I=7) (FF) button. • You can move to other files using the ◄ 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

Progressive

Background Music file has finished loading. Supported Photo Formats

Image Photo Resolution Base-line 15360 x 8704

JPEG Other Restrictions

• CMYK and YCCK color space JPEGs 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 remote
- 2. Repeat Step 1 to select multiple files. NOTE
- 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

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.
- Information: Select to view information about the connected USB Other Information

Media Play - Additional Functions

Videos/Music/Photos Play Option menus

When playing a file, press the TOOLS button

Operation

ou can select another video file play directly.

ou can play movie and music as repeatedly.

ou can adjust the picture size to

ou can adjust the sound setting.

ou can adjust the picture

can play the video with titles. This function only

ne file name as the vide

ks if the subtitles have the

u can select the digital audi

ou can change the audio Inguage if the video has mon nan one language.

u can start or stop a Slide

ou can select the slide show peed during the slide show.

ou can set and select ackground music when

ing a Slide Sho

u can zoom into images ir een mode.

You can rotate images in full screen mode.

ou can see detailed inf bout the played file.

Videos Music Photo:

 \checkmark

 \checkmark

 \checkmark

 \checkmark

 \checkmark

 \checkmark

 \checkmark

 \checkmark \checkmark \checkmark

depending on the model

 \checkmark

 \checkmark

 \checkmark

 \checkmark

 \checkmark

 \checkmark

 \checkmark

 \checkmark

Category

Repeat Mode

Picture Size

Picture Mode

Sound Mode

Subtitle Setting

Audio Format

Audio Language

Stop Slide Show

Start Slide Shov

Slide Show Speed

Background Musi

Zoom

Rotate

1024 x 768

Information

Settings

Using the Setup Menu

Preparing before installing Wall-Mount for 46", 50" models

To install a wall-mount from another manufacturer, use the Holder-Ring.

DivX® Video On Demand : Shows the registration code authorized

for the TV. If you connect to the DivX web site and register with the

S For more information on DivX® VOD, visit "http://vod.divx.com".

10-digit registration code, you can download the VOD activation file

Once you run the file using Media Play, the registration is completed.



Installing the Wall Mount Kit

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

For detailed information about installing the wall mount, see the instructions provided with the wall mount kit. Contact a technician for assistance when installing the wall mount bracket. Samsung Electronics others if you elect to install the wall mount on your ow

is not responsible for any damage to the product or injury to yourself or

ou see small particles when you look osely at the edge of the frame of the TV. This is part of the product's design and is not a defect

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

Shis 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.

You can watch detailed troubleshooting videos at www.samsung.com/spsn.
Some functions and pictures shown in this manual are available on specific models only.

Solution to the set of the se slot, and then select Support > Software Upgrade in the TV's menu.

- 10

Storage and Maintenance

🖏 If a sticker was attached to the TV screen, some debris can remain after you remove the sticker. Please clean it before watching the TV. 🗞 The exterior and screen of the product can get scratched during cleaning. Be sure to wipe the exterior and screen carefully using a soft cloth to



License

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Studio Sound	Manufactured under a license from U.S. Patent No's: 6,285,767, 8,027,477, 5,319,713, 5,333,201, 5,638,452, 5,771,295, 5,970,152, 5,912,976, 7,200,236, 7,492,907, 8,050,434, 7,720,240, 7,031,474, 7,907,736 and 7,764,802. DTS, the Symbol, and DTS and the Symbol together are registered trademarks & DTS studio Sound is a trademark of DTS, Inc. All Rights Reserved.
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The Channel menu is only available when you select the TV source. If TV is in the Store Demo mode, it will reset audio and picture settings every 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 .

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



-	Spe
-	
- r	Environme Operating Operating Storage T Storage H
	Model Na
	Display R
	Screen Si (Diagonal)
	Sound

Output Dimensi Body With sta Weight

Without St With Stand
Model Nar
Display Re
Screen Siz (Diagonal)

Output

Dimens Body

With sta

Weight

Withou

With Star

Model N

Display F

Screen S

(Diagona

Sound

Output

Dimensi

Body

With star

Weight

With Star

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. If you are attaching the wall mount to a wall made of building materials other than drywall, please contact your nearest dealer for information about the appropriate mounting hardware. If you install the TV on a ceiling or lanted 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.

 Do not fasten the screws too firmly. This may damage the product or cause the product to fall, leading to personal injury. Samsung is not liable for these kinds of accidents. Samsung is not liable for product damage or personal injury when a non-VESA or non-specified wall mount is used or the consumer

fails to follow the product installation instructions. VESA D Do not mount the TV at more than a 15 degree tilt.

 Alway 	 Always have two people mount the TV on a wall. 				
Product Family	TV size in inches	VESA screw hole specs (A * B) in millimeters	Standard Screw	Quantity	
	19~22	75 X 75	M4		
I FD-TV	26-29	100 X 100	1014	4	
LED-IV	32-42	200 X 200	M8	4	
	46~60	400 X 400	IVIO		

TV is turned on. It may room injury due to electric shock.

Do not install vour Wall Mount Kit while vour

TV is turned on. It may result in personal



 \triangle

Securing the TV to the Wall

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

To prevent the TV from falling

safety purposes, as described be

TV Holder kits are sold separately. To purchase a TV Holder kit,

- contact Samsung Customer Care.1. Insert the screws into the wall brackets and firmly fasten them to the wall. Make sure the screws are firmly fixed to the wall. $^{\odot}$ We strongly recommend you drive the screws into a stud. Insert the screws through the TV brackets, and then fasten the screws to the top VESA screw holes on the back of the TV.

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

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

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

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. Untie the string or cable before moving the TV.

pecifications			
mental Considerations ng Temperature ng Humidity 9 Temperature 9 Humidity		50°F to 104°F (10°C to 40°C) 10% to 80%, non-condensing -4°F to 113°F (-20°C to 45°C) 5% to 95%, non-condensing	
Name	UN19F4000	UN22F5000	UN29F4000
Resolution	1366 x 768	1920 x 1080	1366 x 768
Size al)	19" Class (18.5" measured diagonally)	22" Class (21.5" measured diagonally)	29" Class (28.5" measured diagonally)
	ЗW	x 2	5W × 2
ions (W x H x D) and	17.8 X 11.2 X 1.9 inches (453.7 X 285.8 X 49.5 (mm)) 17.8 X 12.3 X 4.9 inches (453.7 X 314.2 X 124.9 (mm))	20.2 X 12.6 X 1.7 inches (513.1 X 321.5 X 43.8 (mm)) 20.2 X 14.4 X 6.6 inches (513.1 X 366.5 X 169.6 (mm))	26.3 X 15.5 X 1.9 inches (668.6 X 394.7 X 49.5 (mm)) 26.3 X 18.4 X 7.5 inches (668.6 X 467.5 X 191.7 (mm))
: Stand and	5.5 lbs (2.5 kg) 5.7 lbs (2.6 kg)	5.7 lbs (2.6 kg) 6.3 lbs (2.9 kg)	9.4 lbs (4.3 kg) 10.5 lbs (4.8 kg)
Jame	UN32F4000	UN32F4050	UN32F5000 / UN32F5050
Resolution	1366	1920 x 1080	
Size al)	32" C (31.5" measuri		32" Class (31.5" measured diagonally)
		10W x 2	
ions (W x H x D) and	29.0 X 17.3 X 1.9 inches (737.9 X 440.5 X 49.5 (mm)) 29.0 X 20.0 X 7.5 inches (737.9 X 509.1 X 191.7 (mm))	29.0 X 17.3 X 1.9 inches (737.9 X 440.5 X 49.5 (mm)) 29.0 X 19.1 X 9.9 inches (737.9 X 487.0 X 252.6 (mm))	29.0 X 17.5 X 1.9 inches (738.0 X 445.4 X 49.0 (mm)) 29.0 X 19.9 X 7.5 inches (738.0 X 505.8 X 191.7 (mm))
Stand and	11.4 lbs (5.2 kg) 12.5 lbs (5.7 kg)	11.4 lbs (5.2 kg) 12.3 lbs (5.6 kg)	11.0 lbs (5.0 kg) 12.3 lbs (5.6 kg)
lame	UN40F5000 / UN40F5050	UN46F5000 / UN46F5050	UN50F5000 / UN50F5050
Resolution		1920 x 1080	
Size al)	40" Class (40.0" measured diagonally)	46" Class (45.9" measured diagonally)	50" Class (49.5" measured diagonally)
		10W x 2	
ions (W x H x D) and	36.5 X 21.7 X 1.9 inches (928.2 X 552.3 X 49.4 (nm)) 36.5 X 24.1 X 9.2 inches (928.2 X 612.2 X 235.0 (nm))	41.7 X 24.6 X 1.9 inches (1059.6 X 626.2 X 49.4 (mm)) 41.7 X 27.0 X 9.2 inches (1059.6 X 686.1 X 235.0 (mm))	44.7 X 26.2 X 1.9 inches (1135.4 X 668.0 X 49.8 (mm)) 44.7 X 28.6 X 9.2 inches (1135.4 X 727.9 X 235.0 (mm))
: Stand and	17.6 lbs (8.0 kg) 20.9 lbs (9.5 kg)	23.8 lbs (10.8 kg) 27.1 lbs (12.3 kg)	28.6 lbs (13.0 kg) 31.9 lbs (14.5 kg)

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

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

 Typical power consumption is measured according to Energy Star Program requirements for televisions.
 Dispose unwanted electronics through an approved recycler. To find the nearest recycling location, go to our website: www.samsung.com/ recyclingdirect or call, (877) 278-0799

Troubleshooting

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

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

Solution and color may differ depending on the model. Display Modes (HDMI/DVI Input)

Kensington Lock

Optimal res 4 series:13	solution 166 x 768@60H	Hz / 5 series	s: 1920 x 10)80@60Hz			
Mode	Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H / V)	1366 x 768	1920 x 1080
IBM	720 x 400	31.469	70.087	28.322	-/+	\checkmark	\checkmark

		(KHz)	(Hz)	(MHz)	(H / V)	100	1000
N	720 x 400	31.469	70.087	28.322	-/+	~	\checkmark
	640 x 480	35.000	66.667	30.240	-/-	~	\checkmark
C	832 x 624	49.726	74.551	57.284	-/-	~	\checkmark
	1152 x 870	68.681	75.062	100.000	-/-		\checkmark
	640 x 480	31.469	59.940	25.175	-/-	~	\checkmark
	640 x 480	37.861	72.809	31.500	-/-	~	\checkmark
	640 x 480	37.500	75.000	31.500	-/-	\checkmark	\checkmark
	800 x 600	37.879	60.317	40.000	+/+	~	\checkmark
	800 x 600	48.077	72.188	50.000	+/+	~	\checkmark
	800 x 600	46.875	75.000	49.500	+/+	\checkmark	\checkmark
	1024 x 768	48.363	60.004	65.000	-/-	~	\checkmark
	1024 x 768	56.476	70.069	75.000	-/-	\checkmark	\checkmark
	1024 x 768	60.023	75.029	78.750	+/+	\checkmark	\checkmark
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 -/+ 1920 x 1080 67.500 60.000 148.500 +/+

Caution of the cover-jack for 4 series 5 series 32"

or 4 seri	es, 5 series 32" and above
	CAUTION: The cover-jack is for use by qualified service personnel only. To reduce the risk of electric shock or fire hazard, do not use the cover jack, unless you are qualified to do so.
	TV Rear Panel
	Cover-jack



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. Using your remote, follow the steps below to turn these features off or on. • Energy Saving : MENU → Setup → Eco Solution → Energy Saving • Eco Sensor : MENU → Setup → Eco Solution → Eco Sensor for 5 series 32" and above			
Component Connections / Screen Color	 If you find that the color on your Samsung television's screen is not correct or black and white, first run a Self Diagnosis on the TV to make sure there are no device issues. Self Diagnosis : MENU → Support → Self Diagnosis → Picture Test If the test is ok, try making sure: Your connections are all consistent. For example, if you've used the AV In jack on your TV, make sure you have used the AV Out jack on your video source. Try making sure you have connected to the correct jacks. For example, if you use the Component jacks, labeled Pb, P 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 V jack on the TV, 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 (G/R) and so on. Go to "Picture" on the User 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 Ne Signal Power Off feature. First make sure your Sleep Timer is not accidentally set. The Sleep Time allows you the comfort of falling asleep with the TV still on but, turns it off after a certain period of time so as not to waste energy. • Sleep Timer : MENU → Setup → Time → Sleep Timer If the Sleep Timer is not activated, you may have engaged the No Signal Power Off or Auto Power Off feature. • No Signal Power Off : MENU → Setup → Eco Solution → No Signal Power Off • Auto Power Off : MENU → Setup → Eco Solution → Auto Power Off			
Trouble Powering On	 Before 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 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 your power cord, remote control, and PC are functioning properly, you may be having a cable issue. If you hav a cable or satellite box, your TV may appear to be off because the cable or satellite box is not outputting a signal. To test the signal output of your cable or indicating the power 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 channel	Re-run plug and play.			
Poor picture	First, perform the Picture Test and to see if your TV is properly displaying the test image. Go to MENU - Support - Self Diagnosis - Picture Test If the test image is properly displayed, the poor picture may be caused by the source or signal.			
The TV image does not look as good as it did in the store.	If you have an analog cable/satellite box, upgrade to a digital set top box. Use HDMI or Component cables to deliver HD (hig definition) picture quality. Cable/Satellite subscribers: Try HD channels from the channel line up. Air/Cable Antenna connection: Try HD channels after running Auto program. Many HD channels broadcast SD contents upscaled to HD. The picture quality of upscaled 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 pictures from sports and action movies. A weak signal can cause picture distortion. This is not a TV problem. Mobile phones used close to the TV (within 3.3ft) may cause noise in the picture on analog and digital channels. 			
Color is wrong or missing.	If you're using a component connection, make sure the component cables are connected to the correct jacks. Incorrect or loose connections may cause color problems or a blank screen.			
There is poor color or brightness.	 Adjust the Picture options in the TV menu. (Go to Picture Mode / Color / Brightness / Sharpness) Adjust the Energy Saving option in the TV menu. (Go to MENU - Setup - Eco Solution - Energy Saving) Try resetting the picture to view the default picture setting. (Go to MENU - Picture - Picture Reset) 			
There is a dotted line on the edge of the screen.	 If the picture size is set to Screen Fit, change it to 16:9. Change the cable/satellite box resolution. 			
The picture is black and white.	If you are using an AV composite input, connect the video cable (yellow) to the Green jack of Component input 1 on the TV.			
When changing channels, the picture freezes or is distorted or delayed.	 If the TV is connected to a cable box, reset the cable box. (Disconnect and then reconnect the box's AC cord and wait ur the cable box reboots. It may take up to 20 minutes.) Set the output resolution of the cable box to 1080i or 720p. 			

JACK PANEL DETAIL / REAR VIEW

UN19F4000 / UN22F5000



(Unit: II						(Unit: inches)
Model name	1	2	3	4	5	6
UN19F4000	3.0	3.1	2.5	6.9	2.9	2.9
UN22F5000	4.4	4.4	2.6	8.2	2.9	2.9

UN29F4000



UN32E4000 / UN32E4050 / UN32E5000 / UN32E5050 / UN40E5000 / UN46E5050 / UN46E5050 / UN46E5050 / UN50E5000 / UN50E5050

						(Unit: inche
Model name	1	2	3	4	5	6
F4000 / UN32F4050	7.7	4.7	3.9	19.0	7.8	7.8
F5000 / UN32F5050	7.8	4.8	4.0	19.1	7.8	7.8
E5000 / LIN40E5050	9.8	69	6.2	24.4	7.8	7.8

011021 00007 011021 0000	1.0	4.0	4.0	15.1	1.0		
UN40F5000 / UN40F5050	9.8	6.9	6.2	24.4	7.8		
UN46F5000 / UN46F5050	12.1	6.4	6.9	30.1	15.7		
UN50F5000 / UN50F5050	14.0	6.8	6.6	32.7	15.7		
JOTE: All drawings are not necessarily to scale. Some dimensions are subject to change without prior notice. Refer to the dimensions r							

performing installation of your TV. Not responsible for typographical or printed errors. © 2013 Samsung Electronics America. Inc