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

Important Warranty Information Regarding

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 he in the wide screen 16.9 ratio format, or expanded to fill the een 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 logos, web sites or computer graphics and patterns, should be limited as described above for all televisions. Displaying stationary images that exceed the above guidelines can cause uneven aging of LED Displays that leave subtle, but permanent burned-in ghost images in the LED picture. To avoid this, vary the programming and images, and primarily display full screen moving images, not stationary patterns or dark bars. On LED models that offer picture sizing features, use these controls to view different formats as a full screen picture. Be careful 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

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 n Canada, and in Canada on SAMSUNG products purchased in the United States, for the warranty period originally specified, and to the Original Purchaser only.

he above described warranty repairs must be performed by a SAMSLING Authorized Service Center, Along with this Statement and the Original Limited Warranty Statement, a dated Bill of Sale as Proof of Purchase must be presented to the Service Center. Transportation to and from the Service Center is the responsibility of the purchaser. or workmanship, and only those encountered in normal use of the provisions for in-home or on-site services, minimum or maximum repair times, exchanges or replacements, accessories, options, upgrades, or For the location of a SAMSUNG Authorized Service Center, please call



Subject to the requirements, conditions, exclusions and limitations

onditions covered are limited only to manufacturing defects in material product. Exclusions include, but are not limited to, any originally specified

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



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 annels back to the Added Channels list on the All Channels list.

A gray-colored channel indicates the channel has been deleted from 5. Press the ENTER button on your remote when done he Added Channels list.

The Add menu option only appears for deleted channels. ■ Add to Favorite / Delete from Favorite Tools : 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

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

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

■ 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 A/V buttons. Programmed List Screen Tools Menu

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



4. Use the ◀/▶ buttons to move from entry field to entry field and the you can also enter numbers directly using the number keypad on

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 pand 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-(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 deta

Country	CANADA	U.S.A
Address	Samsung Electronics Canada Inc., Customer Service 55 Standish Court Mississauga Ontario L5R 4B2 Canada	Samsung Electronics America, Inc. 85 Challenger Road Ridgefield Park, NJ 0766
Customer Care Center @	1-800-SAMSUNG (726-7864	4)
Web Site	www.samsung.com/ca (English) www.samsung.com/ca_fr (French)	www.samsung.com

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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. For Everyday, the TV will turn on every day, at the time vo 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 ect Once, the TV will turn on once, on the date and time you

Only Added Channels can be scheduled. Scheduled programs and channels are displayed in the

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 that program directly.

■ 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. ■ Deselect All: Deselect all the selected displayed channels.

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

modify, or delete a show you have scheduled using the functions on the Programmed List screen Tools menu.

P Channel List → Programmed → 100157

■ Change Info: Change the scheduling information for a show or

To change the information, follow these steps: 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 Menu appears

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

4. Use the 4/b buttons to move from entry field to entry field and the Ose the \P -poutons to move from entry lield to entry lield and the A- \P -buttons to change the entries. Where numbers are displayed you can also enter numbers directly using the number keypad on

Press the ENTER - button when done.

■ Cancel Schedules: Cancel a show or channel you have scheduled. To cancel a scheduled show or channel, follow these steps:

 Select the Programmed List icon on the left side of the Channel List screen, and then press the ENTER → button. 2. On the Programmed List screen, select the show or channel entry you want to cancel, and then press the TOOLS button. The Tools

Menu appears. 3. Select Cancel Schedules, and then press the ENTER - button.

he 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.

List screen, and then press the ENTER → button. ou want information for, and then press the TOOLS button. The

The On Screen Menus

The Main menu has seven primary categories:

Input

Picture Menu

Select your preferred picture mode.

Mode TOOLS #

and Standard

Your TV has two kinds of menus, the Main menu and the various Tools

of frequently used menu options that change depending on the screen

Sound
 Channel

Application
 Support

a Tools menu, press the TOOLS button on your remote

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

you are viewing. A Tools menu symbol (河) in the lower right side of the screen indicates that a Tools menu is available.

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

The menu options that appear in the Main menu depend on the

Channel category, you must first select TV in the Source List.

The Menu options are presented below, arranged by Main menu

indicates the option is also available in one of the Tools menus.

Dynamic: Brightens the screen. Suitable for a bright room.

Standard: Suitable for a normal room brightness

■ Entertain: Sharpens the picture. Suitable for games

Only available when the TV is connected to a PC.

Samsung MagicAngle for 19", 22" models

Off: Select when viewing from the front position.

Mode: Adjust screen viewing angle.

brightness of the individual pixels.

becomes black, white, and gray.

Color / Tint (G/R)

reas of the picture.

Source you have selected. For example, if you have selected the HDMI source, the Channel category will not appear. To see the

categories. A Tools button symbol (TOOLS) next to an option name

When your TV is connected to a PC, you can only select Entertain

Movie: Darkens the screen, making it less glary. Suitable for watching

Adjust screen viewing Angle to optimize screen quality according to your

below or above by setting the appropriate mode for each position you

can obtain a similar picture quality as viewing the screen directly from

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

Standing Mode: Select when viewing from the upper position.

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

Backlight / Contrast / Brightness / Sharpness /

■ Backlight: Adjusts the brightness of the screen by adjusting the

Sharpness: Sharpens or dulls the edges of objects.

■ Contrast: Increases or decreases the contrast between dark and light

■ Brightness: Adjusts the brightness of the screen. Not as effective as

Color: Adjusts the color saturation. The higher the Color setting, the

more intense the color. Low settings remove color and the picture

Samsung MagicAngle: When viewing the screen at an angle from

3. Select Information, and then press the ENTER button. The Timer Viewing Info screen appears.

 Select Change Info and press the ENTER → button to change information, or select Close and press the ENTER → button to close the Information screen

☐ Other Channel Menu Functions

Channel Mode 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, a signal is weak or distorted, fine tune the channel manually Select the channel, and then select Fine Tune.

Fine tuned channels that have been saved are marked with an asterisk "*" on the right-hand side of the channel number in the

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

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

Language

Set the menu language

□ 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

If you disconnect the power cord, you have to set the clock again.

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

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

Tools Menu appears.

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

Lets you select the channel list displayed when you press the \land CH \lor (Channel) button on your remote. For example, if you select Favorite

Fine Tune Analog channels only. this is done automatically during the search and store operation. If the

select Reset on the Fine Tune screen

Plug & Play

Choose between English, Español, and Français.

To set the clock, follow these steps

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

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

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

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

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

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

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

White Balance: Adjusts the color temperature of the picture so that

R-Offset / G-Offset / B-Offset: Adjusts how dark each color (red,

R-Gain / G-Gain / B-Gain: Adjusts how bright each color (red, green,

brightness of the screen in response to the brightness of the room. In

slightly yellow) and the overall color of the picture looks natural.

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

Motion Lighting: When on, the TV automatically adjusts the

he Color Tone, Size, and HDMI Black Level.

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

orders on the right and left of the picture.

bright light, the screen brightens. In dim light, the screen dims.

When the TV is connected to a PC, you can only make changes to

Color Tone: Cool makes the picture bluer (cooler). Warm 1 and Warm

Warm1 and Warm2 are deactivated when the picture mode is set

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

Zoom1: Provides moderate magnification of the picture. Sides, top,

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

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 gray

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)

HD (High Definition) has a 16:9 aspect ratio and 1080l/1080p (1920x1080) or 720p (1280x720) resolution.

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

■ Color Space: Auto automatically matches the range of colors (the variety and number of colors) available to create pictures with the

increase the amount of green, the amount of red decre

Advanced Settings

areen, blue) is,

Picture Options

most of the time.

bottom are cut off.

and bottom are cut off.

picture with more precise controls.

Gamma and White Balance.

settings make blacks look darker

Available in **Standard** and **Movie** mode only.

Dynamic Contrast: Adjusts the screen contras

nan the color range of the video source.

■ Gamma: Adjusts the primary color intensity.

Available in Standard mode only

make the picture redder (warmer

Flesh Tone: Adjusts the amount of red in skin tones

If you selected Auto: he TV will automatically download the correct time from a digital

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

If you selected Manual: The Clock Set screen appears. Use the ▲/▼ buttons to change the values in each field or use the number buttons to enter the values directly. Use the

with all the fields, press ENTER 🗗. Available only when Clock Mode is set to Manual.

Sleep Timer 100137 omatically 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. Mark On Time / Off Time: Set the hour, minute, am/pm, and Activate/ fields for On Time and Off Time. Use the ◀/▶ 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 back contents such as prior or adult ness over the ₹/₽ buttons in 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

olders, in one folder of a USB storage device is 2000. The media may not play smoothly if you use a USB device rated 1. Use the
■/▶ buttons to move to the field under Music or the field under Photo, and then press the ENTER — button. The TV displays a single folder (the Root folder) and the type or name of the

The maximum number of files the TV can display, including sub

. Select Setup >Time > Clock.

• Select **Time Zone**, and then press the ENTER → button. Use

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

☐ Other Features Game Mode

button. The Timer screen re-appears.

and then press the ENTER - button.

When you connect a game console such as a PlayStation $^{\text{TM}}$ or $Xbox^{\text{TM}}$ to your TV, you can enjoy a more realistic gaming experience by turning on the Game Mode function.

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 will appear.

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

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.

Rating Lock, and then press ENTER . Select On, and then press the ENTER . select On, and then press the ENTER . you 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

When the Program Rating Lock screen appears, select Program

■ 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.

🦠 You can adjust and store settings for each external device you have 🛮 🖏 You can only select a language from among the ones being

Multi-Track Sound

connected to an input on the TV. Picture Sizes available by Input Source are listed below:

■ Digital Clean View: If the broadcast signal received by your TV is weak, you can activate the Digital Clean View feature to reduce any

When the signal is weak, try all the Digital Clean View options until

■ HDMI Black Level: For HDMI signals, select the black level to adjust

signals from all sources and adjusts the picture for optimum quality

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

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

■ MPEG Noise Filter: Reduces MPEG noise to provide improved

Film Mode: Sets the TV to automatically sense and process film

static and phosting that may appear on the screen

Available only in HDMI mode (RGB signals).

Resets the picture settings to their factory defaults.

Standard: Selects the normal sound mode.

Movie: Provides the best sound for movies

Clear Voice: Emphasizes voices over other sounds.

Reset: Resets the equalizer to its default settings.

better listening experience for the hearing impaired.

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

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

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

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.

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.

Use the ▲/▼ buttons to highlight a folder that contains music or photos, and then press the Yellow (Select) button to select the folder.

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

Manual. If you select Manual, you can select the days you want to activate the timer by using the ◀/▶ buttons to highlight the day, and then pressing the ENTER ■ button. To unselect a day, highlight it,

If there are no folders on your device, press the Yellow (Select) button to select the Root folder, and then press the RETURN

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

Music: Emphasizes music over voices.

Available in Standard sound mode only.

Available in Standard sound mode only.

Picture Size

16:9, Zoom1,

16:9. Wide Fit. 4:3.

Zoom2, 4:3

Input Source

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

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

1080p), HDMI (720p, 1080i, 1080p)

the TV displays the best picture

and HDMI (480i / 108òi).

Picture Reset

Sound Menu

Mode Tools

Equalizer

DTS TruSurround

Preferred Language

Digital channels only.

novement to provide a clear picture

nalog channels only Mono: Select for channels that are broadcasting in mono or if you are wing difficulty receiving a stereo signal.

Stereo: Select for channels that are broadcasting in stereo SAP: Select to listen to the Separate Audio Program, which is usually

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

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

SPDIF Output for 32" and above models

The SPDIF (Sony Philips Digital InterFace) outputs an uncompressed 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.

Madio Format: You can select the Digital Audio output (SPDIF) format. The available Digital Audio output format may differ depending on the input source. By connecting the TV to a receiver or home theater with Dolby

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 🖃

when done (0ms ~ 250ms). Speaker Select

If you are listening to the sound track of a broadcast or movie through an external receiver, you may hear a sound echo caused by the difference in decoding speed between the TV's speakers and the speakers attached to your audio receiver. If this occurs, set the TV to External Speaker.

When you set Speaker Select to External Speaker, the TV's speakers are turned off. You will hear sound through the external speakers only. When you set **Speaker Select** to **TV Speaker** both the TV's speakers and the external speakers are on. You will hear sound through both.

When Speaker Select is set to External Speaker, the VOLUME and MUTE buttons will not operate and the sound settings will be If there is no video signal, both the TV's speakers and the external

Resets all sound settings to the factory

Anglophone Canadian ratings.

D: Sexually Suggestive Dialog.

(On-Screen Text Dialogue)

Caption

information while watching DTV channels

Locking/Blocking Programs or Movies

Canadian ratings.

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

Canadian English: You can block TV programs based on their

■ Downloadable U.S. Rating: You can use parental restriction

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

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 /

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.

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

You can also Allow All or Lock All, When done, press the RETURN

screen disappears, press the OK button. The TV has memor

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) → MUTE → 8 → 2 → 4 → POWER (on)

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

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

Default / CC1 ~ CC4 / Text1 ~ Text4: (analog channels only) The Analog Caption function operates in either analog TV channel mode

(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

Service1~6 may not be available in digital caption mode depending

Size: Options include Default, Small, Standard and Large. The default

Font Style: Options include Default and Styles 0 to 7. The default is

Green, Blue, Yellow, Magenta and Cyan. You can change the color of the letters. The default is White.

Foreground Color: Options include Default, White, Black, Red.

channels only) The Digital Captions function works with digital

Digital Caption Options: (Digital channels only)

or when a signal is supplied from an external device to the TV.

ot available, they will not be displayed on the screer

■ Caption Mode: You can select the desired caption mode.

■ 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

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 e-run the Plug & Play procedure.

Antenna (Switch to Cable / Switch to Air TOOLS)

Before your television can memorize the available channels, you r select your TV's signal source, Air (using an antenna) or Cable, Select Menu > Channel > Antenna > Air or Cable. After you have selected th

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 **Auto Program** function memorizes all channels that are available over the air or through your cable system and adds them to the **Channels**

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 MENUШ → Channel → Auto Program → ENTER → on your ■ Favorite: Shows all favorite channels.

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

If your TV is connected to an antenna choose Air, and then press ENTER 🚭 . The TV will automatically start memorizing channels. Yellow (Select): Move the cursor to a channel. Press the Yellow

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

If you choose Auto, and then press ENTER , the TV will automatically select the correct Antenna source. Go to Step 3. 3. On the Cable Type screen, use the 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 or

Background Color: Options include Default, White, Black, Red,

Foreground Opacity: This adjusts the opacity of text. Options include

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 buttor

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

Default 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

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

■ 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 on the screen.

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

Sound Test: Use 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

quality is either perfect or the channels are unavailable. Adjust your

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

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

slightly darker in most cases) depending on the surrounding light

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

If Eco Sensor is On, the display brightness may ch

ode if no picture is being received.

Auto Protection Time

Support Menu

antenna to increase signal strength.

Self Diagnosis

Green, Blue, Yellow, Magenta and Cyan. You can change the background color of the captions. The default is Black.

Background Opacity: This adjusts the opacity of the caption

Default, Transparent, Translucent, Solid and Flashing.

Opacity to its default.

The Melody does not play

has been pressed.

Eco Solution

Melody

Clear Scrambled Channel

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

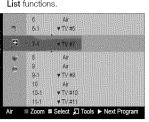
This function is only available in Cable mode

Channel Menu ■ 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. Select a channel to watch on the All Channels, Added Channels, or Favorite screen by pressing the ▲/▼ buttons, and then ressing the ENTER A 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 icon using the ▲/▼ buttons to view each list.

■ 📞 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 channels that appear when you press the CH button.

■ **® Programmed**: Shows all channels and programs currently scheduled using Timer Viewing.

Remote control buttons active on the Channel List screen. • Green (Zoom): Enlarges or shrinks a channel number.

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

🖈 🖅 (Tools): Displays the Channel List Tools menu. (The Tools menus may differ depending on the situation.) Next Program): Displays next programs.

Display Icons Used in the Channel List Screens

A reserved program.					
ď	A program currently being broadcast.				
☐ The Ch	annel List Tools Menu				
@ Q I	i. Y Swindshippelimin				

Meaning

Channel List → TOOLS The Channel List Tools menu contains most of the functions you can us on the All Channel, Added Channels, and Favorite List screen

A Favorite channel.

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

▲/▼ buttons and the Yellow (Select) button on your remote 2. Press the TOOLS button on your remote. The Tools menu appears 3. Select Delete in the Tools menu, and then press the ENTER -

■ Reset: Reset all settings to the factory defaults. The PIN input screen appears before the setup scree

Software Upgrade background. Options include Default, Transparent, Translucent, Solid and Flashing. **Software Upgrade** can be performed by downloading the latest firmware from samsung.com to a USB memory device.

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

HD Connection Guide

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

USB Mass Storage Class (MSC) device.



☐ Connecting a USB 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 Turn on your T\ 2. Connect a USB device containing photo, music, and/or movie files to

Settings) and then press the ENTER # button Media Play might not work properly with unlicensed multimedia

 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)

 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.

"Not Supported File Format" message appears.

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

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

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

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

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

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

2013-03-22 🖾 2:15:01

[UF4000_5000_29-ZA]BN68-04801G-Eng.indd 1

- The TV cannot play MP3 files with DRM that have been downloaded from a for-pay site. Digital Rights Management (DRM) is a technology that supports the creation, distribution,
- 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
- 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

- Video content will not play, or not play correctly, if there is an error in the content or the container. In the Media Play menu, press the ◀ or ▶ button to select Videos, and then press the ENTER ☐ button.
- 2. Press the ◀/►/▲/▼ buttons to select a video in the file list. 3. Press the ENTER → button or ► (Play) button.
- The file name is displayed on the top of the screen with the playing - If video time information is unknown, playing time and the progress
- bar are not displayed - During video playback, you can search using the ◀ and ▶
- In this mode, you can play movie clips contained in a game, but you cannot play the game itself.

 Supported Subtitle Formats

lower than USB 2.0.

·	- External

-	External		supported.
	Name	File extension	MPEG4 SP, ASP :
	MPEG-4 timed text	.ttxt	- Below 1280 x 720: 60 f
	SAMI	.smi	- Above 1280 x 720: 30 f
	SubRip	.srt	H.263 is not supported.
	SubViewer	.sub	— GMC is not support.
	Micro DVD	.sub or .txt	Audio Decoder
	SubStation Alpha	.ssa	Supports up to WMA7, 8
	Advanced SubStation Alpha	.ass	WMA 9 PRO and WMA
- i	ntemal		(LBR mode of WMA Pro i

Sound Problem

No Picture, No Video

The TV turns off automatically

There is no picture/video

The TV is not receiving all channels

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.

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

There is a plastic smell from the TV.

TV is tilted to the right or left side.

The Channel menu is greyed out

The remote control does not work

Name	Container	Format		
Xsub	AVI	Picture Format		
SubStation Alpha	MKV	Text Format		
Advanced SubStation Alpha	MKV	Text Format		
SubRip	MKV	Text Format		
MPEG-4 Timed text	MP4	Text Format		

6~30 30Mbps

6~30 30Mbps

30Mbps

4/25/30 30Mbps

6~30 30Mbps

6~30 30Mbps

920x1080 6~30 30Mbps

Supported Video Formats

Other Restrictions

Video Formats table.

Supports up to H.264, Level 4.1

- Below 1280 x 720: 60 frame max

- Above 1280 x 720: 30 frame max

10Mbps.

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 signa

(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.

Make sure your connected devices are powered on.

. Some channels may not have caption data

If your PC is connected to the TV, check your PC power settings.

. 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.

Caption must be activated on the external device.

Remove the stand base from the TV and reassemble it

You have intermittent loss of audio or video. Check the cable connections and reconnect them

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

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

Make sure the wall outlet is working.

. 264 BP/ MP/HP

1920x1080

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

• If the Index Table contains an error, the Seek (Jump) function will not

• The menu may take longer to appear if the video's bit rate exceeds

Video content may not be play if there is too much content in one file

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

Supports up to WMA7, 8, 9 STD, 9 PRO, and 10 PRC

(LBR mode of WMA Pro is not supported.)

WMA Lossless is not supported.

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.

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 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)

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.

 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 SAMSUNG TV code.

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.

If TV is in the Store Demo mode, it will reset audio and picture settings every 30 minutes. Please change from Store Demo mod to Home Use mode using the Plug & Play procedure. Press the SOURCE button to select TV mode, go to MENU → Setup → Plug & Play → ENTER 🖃.

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.

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

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.

. Check the cable connections, (Remove and reconnect all cables connected to the TV and external devices)

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.

WMA 9 PRO and WMA 10 PRO support 5.1 channel

- 1. In the Media Play menu, press the ◀/▶ buttons to select Music, and then press the ENTER - button.
- 2. Press the ◀/▶/▲/▼ buttons to select the desired Music in the file
- 3. Press the ENTER button or (Play) button.
- During music playback, you can search using the ◄/▶ buttons.
 ◄ (REW) and ► (FF) buttons do not function during play. Media Play only displays files with MP3 file extensions. Other file extensions are not displayed, even if they are saved on the same
- If the sound is abnormal when playing MP3 files, adjust the Equalizer in the Sound menu. (An over-modulated MP3 file may cause a sound problem.)

Photos

- 1. In the Media Play menu,, press the ◀ or ▶ button to select Photos, then press the ENTER A button.
- 2. Press the </▶/▲/▼ buttons to select a photo in the file list. 3. Press the ENTER → button or ► (Play) button.
- While a photo list is displayed, press the

 (Play) / ENTER

 button on the remote control to start a slide show.
- · All files in the file list section will be displayed in the slide show. During the slide show, files are displayed in order.
- During the slide show, you can adjust the slide show speed using (◀) (REW) or (►) (FF) button.
- You can move to other files using the ◀ or ▶ button. Media Play can play Music files automatically during a Slide Show

Image Photo Resolution

Base-line

if Background Music is set to On.

You cannot change the Mode in Background Music until the

	Background Music file has finis
•	Supported Photo Formats

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

 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 4 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.

Media Play - Additional Functions

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

Category	Operation	Videos	Music	Photos
Title	You can select another video file to play directly.	~		
Repeat Mode	You can play movie and music files repeatedly.	~	~	
Picture Size	You can adjust the picture size to your preference.	~		
Picture Mode	You can adjust the picture setting.	~		~
Sound Mode	You can adjust the sound setting.	~	~	✓
Subtitle 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.	~		
Audio Language	You can change the audio language if the video has more than one language.	~		
Stop Slide Show / Start Slide Show	You can start or stop a Slide Show.			~
Slide Show Speed	You can select the slide show speed during the slide show.			~
Background Music	You can set and select background music when watching a Slide Show.			~
Zoom	You can zoom into images in full screen mode.			~
Rotate	You can rotate images in full screen mode.			~
Information	You can see detailed information about the played file.	~	~	~

15360 x 8704

1024 x 768

Using the Setup Menu

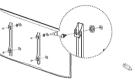
- DivX® Video On Demand: Shows the registration code authorized for the TV. If you connect to the DivX web site and register with the 10-digit registration code, you can download the VOD activation file Once you run the file using Media Play, the registration is completed.
- For more information on DivX® VOD, visit "http://vod.divx.com". Information: Select to view information about the connected USB

Other Information

Preparing before installing Wall-Mount

for 46", 50" models

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



The product shape may differ

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 ror 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 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 ov

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

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

This TFT LED panel uses a panel consisting of sub pixels which require sophisticated technology to produce. However, there may be a few bright or dark pixels on the screen. These pixels will have no impact on the performance of the product.

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

You can keep your TV in optimum condition by upgrading it with the latest firmware from the Samsung web site (samsung.com o Support). 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.

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 prevent scratches.



Do not spray water directly onto the product. Any liquid that goes into the roduct may cause a failure, fire, or electric



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.

License



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

dts

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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 othe than drywall, please contact your nearest dealer for information about the appropriate mounting hardware. If you install the TV on a ceiling or

- ® Please find a "⋒" icon on the rear of the TV. The Kensington slot is slanted wall, it may fall and result in severe personal injury.
- Standard dimensions for wall mount kits are shown in the table
- 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

NOTE

- screw specifications. Do not use screws that are longer than the standard dimension or do not comply with the VESA standard screw specifications.
- 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

Screws that are too long may cause damage to the inside of the

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

* Alwa	ays 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	
LED TV	26-29	100 X 100	1014	,
LED-TV	32-42	200 X 200	M8	4
	46-60	400 X 400	IVIO	

Do not install your Wall Mount Kit while your TV is turned on, it may result in personal injury due to electric shock.

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

TV Holder kits are sold separately. To purchase a TV Holder kit, contact Samsung Customer Care.

safety purposes, as described below

- 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.
- 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
- 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

UN19F4000

1366 x 768

19" Class

(18.5" measured diagonally

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

5.7 lbs (2.6 kg

UN32F4000

29.0 X 17.3 X 1.9 inche

(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))

12.5 lbs (5.7 kg

UN40F5000 / UN40F5050

(40.0° measured diagonally)

36.5 X 21.7 X 1.9 inches

(028 2 X 552 3 X 49 4 (mm))

(928.2 X 612.2 X 235.0 (mm))

20.9 lbs (9.5 kg)

Typical power consumption is measured according to Energy Star Program requirements for televisions.

Design and specifications are subject to change without prior notice.

This device is a Class B digital apparatus.

recyclingdirect or call, (877) 278-0799

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

Specifications

Environmental Considerations Operating Temperature

Operating Humidity

Storage Temperature

Model Name

Display Resolution

Dimensions (W x H x D)

Screen Size

(Diagonal)

With stand

Without Stanc

Model Name

Screen Size

(Diagonal)

Output

With stand

Without Stand

Model Name

Screen Size

(Diagonal)

Output

With stand

Weight -

With Stand

Display Resolution

Dimensions (W x H x D)

With Stand

Display Resolution

Output

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. Untile the string or cable before moving the TV.

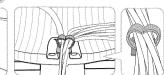
Kensington Lock

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

The position and color may differ depending on the model.

Assembling the Stand Wire Holder

for 29" and above models



Display Modes (HDMI/DVI Input)

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	-/+	✓	√
	640 x 480	35.000	66.667	30.240	-/-	V	V
MAC	832 x 624	49.726	74.551	57.284	-/-	✓	V
	1152 x 870	68,681	75.062	100.000	-/-		✓
	640 x 480	31.469	59.940	25.175	-/-	~	✓
	640 x 480	37.861	72.809	31.500	-/-	~	✓
	640 x 480	37.500	75.000	31.500	-/-	~	✓
	800 x 600	37.879	60.317	40.000	+/+	~	✓
	800 x 600	48.077	72.188	50.000	+/+	✓	✓
	800 x 600	46.875	75.000	49.500	+/+	✓	✓
	1024 x 768	48.363	60.004	65.000	-/-	~	✓
	1024 x 768	56.476	70.069	75.000	-/-	~	✓
	1024 x 768	60.023	75.029	78.750	+/+	~	✓
VESA DMT	1152 x 864	67.500	75.000	108.000	+/+		✓
	1280 x 720	45.000	60.000	74.250	+/+	✓	✓
	1280 x 800	49.702	59.810	83.500	-/+		✓
	1280 x 1024	63.981	60.020	108.000	+/+		√
	1280 x 1024	79.976	75.025	135.000	+/+		V
	1366 x 768	47.712	59.790	85.500	+/+	~	✓
	1440 x 900	55.935	59.887	106.500	-/+		✓
	1600 x 900RB	60.000	60.000	108.000	+/+		✓
	1680 x 1050	65.290	59.954	146.250	-/+		✓
	1920 x 1080	67.500	60.000	148.500	+/+		V

Caution of the cover-jack

50°F to 104°F (10°C to 40°C)

4°F to 113°F (-20°C to 45°C)

UN22F5000

1920 x 1080

22" Class

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

5.7 lbs (2.6 kg)

6.3 lbs (2.9 kg)

UN32F4050

10W x 2

29.0 X 17.3 X 1.9 inches

29.0 X 19.1 X 9.9 inches

(737.9 X 487.0 X 252.6 (mm))

12.3 lbs (5.6 kg

UN46F5000 / UN46F5050

1920 x 1080

46" Class

(45.9* measured diagonally

10W x 2

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 inche

(1059.6 X 686.1 X 235.0 (mm))

27.1 lbs (12.3 kg)

(737.9 X 440.5 X 49.5 (mm))

1366 x 768

32" Class

(31.5" measured diagonally)

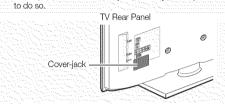
For information about your TV's power requirements and more about power consumption, refer to the label attached to the product.

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

10% to 80%, non-condensing

% to 95%, non-cond

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



UN29F4000

1366 x 768

29" Class

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))

9.4 lbs (4.3 kg)

10.5 lbs (4.8 kg)

UN32F5000 / UN32F5050

1920 x 1080

32" Class

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

12.3 lbs (5.6 kg)

UN50F5000 / UN50F5050

50" Class

(49.5" measured diagonally)

44.7 X 26.2 X 1.9 inches

(1135.4 X 668.0 X 49.8 (mm))

(1135.4 X 727.9 X 235.0 (mm))

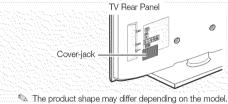
31.9 lbs (14.5 kg)

44.7 X 28.6 X 9.2 inches

(738.0 X 505.8 X 191.7 (mm))

(31.5" measured diagonally)

for 4 series, 5 series 32" and above



JACK PANEL DETAIL / REAR VIEW

W UN19F4000 / UN22F5000

Troubleshooting

Flickering and Dimming

Component Connections

Screen Brightness

Unwanted Powering of

Trouble Powering On

Stand Assembly

Poor picture

Cannot find channel

The picture is distorted: macroblock error,

small block, dots, pixelization.

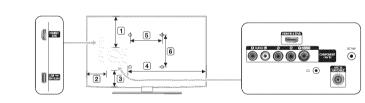
Color is wrong or missing.

There is poor color or brightness.

The picture is black and white.

When changing channels, the picture freezes or is distorted or delayed.

There is a dotted line on the edge of the



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

 $\bullet \; \; \mathsf{Self \, Diagnosis} : \mathsf{MENU} \to \mathsf{Support} \to \mathsf{Self \, Diagnosis} \to \mathsf{Picture \, Test}$

still on but turns it off after a certain period of time so as not to waste energy

Auto Power Off : MENU → Setup → Eco Solution → Auto Power Off

• Sleep Timer : MENU \rightarrow Setup \rightarrow Time \rightarrow Sleep Timer

Go to MENU - Support - Self Diagnosis - Picture Test

sports and action movies.

Cable/Satellite subscribers: Try HD channels from the channel line up.

Air/Cable Antenna connection: Try HD channels after running Auto program.

Adjust the Cable/Set top box video output resolution to 1080i or 720p.

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

loose connections may cause color problems or a blank screen

If the picture size is set to Screen Fit, change it to 16:9.

the cable box reboots. It may take up to 20 minutes.

Set the output resolution of the cable box to 1080i or 720n.

Change the cable/satellite box resolution

If the test is ok, try making sure:

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

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.

** 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,

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

Backlight, Contrast, Brightness, Sharpness, Color, Tint (G/R) and so on. Go to "Picture" on the User Menu. and then

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 your Sleep Timer is not accidentally set. The Sleep Time allows you the comfort of falling asleep with the TV

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 sure 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 satellite box, press the guide or info button on the cable or satellite box remote control. If the screen displays the guide or info data, the problem is caused by the box.

If you have an analog cable/satellite box, upgrade to a digital set top box. Use HDMI or Component cables to deliver HD (high definition) picture quality.

Many HD channels broadcast SD contents upscaled to HD. The picture quality of upscaled SD content is low.

. Mobile phones used close to the TV (within 3.3ft) may cause noise in the picture on analog and digital channels

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)

Compression of video contents may cause picture distortion, especially on fast moving pictures such as pictures from

If you're using a component connection, make sure the component cables are connected to the correct jacks. Incorrect or

. If you are using an AV composite input, connect the video cable (yellow) to the Green jack of Component input 1 on the

. If the TV is connected to a cable box, reset the cable box. (Disconnect and then reconnect the box's AC cord and wait until

If you have any trouble assembling the stand, refer to "Install the Stand" in the Start Up or Stand Installation Guide.

First, perform the Picture Test and to see if your TV is properly displaying the test image.

If the test image is properly displayed, the poor picture may be caused by the source or signal.

If the Sleep Timer is not activated, you may have engaged the No Signal Power Off or Auto Power Off feature.

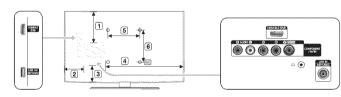
No Signal Power Off: MENU → Setup → Eco Solution → No Signal Power Off

and Y, to connect your TV and video source, make sure you have connected the blue Pb jack on the video source to the blue Pb jack on the TV, the red Pr jack on the source to the red Pr jack on the TV, etc.

Energy Saving : MENU → Setup → Eco Solution → Energy Saving
 Eco Sensor : MENU → Setup → Eco Solution → Eco Sensor for 5 series 32" and above

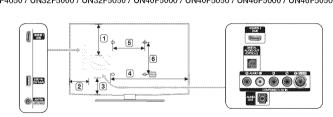
Model name UN19F4000 3.0 2.5 6.9 2.9 2.9 UN22F5000 4.4

■ UN29F4000



Model name 3.5 4.1 16.6

■ UN32F4000 / UN32F4050 / UN32F5000 / UN32F5050 / UN40F5000 / UN40F5050 / UN46F5000 / UN46F5050 / UN50F5000 / UN50F5050



						(Unit: Inches)
Model name	1	(2)	3	(4)	(5)	<u>(6)</u>
UN32F4000 / UN32F4050	7.7	4.7	3.9	19.0	7.8	7.8
UN32F5000 / UN32F5050	7.8	4.8	4.0	19.1	7.8	7.8
UN40F5000 / UN40F5050	9.8	6.9	6.2	24.4	7.8	7.8
UN46F5000 / UN46F5050	12.1	6.4	6.9	30.1	15.7	15.7
LINSOESOOO / LINSOESOSO	14.0	6.8	6.6	32.7	15.7	15.7

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 © 2013 Samsung Electronics America, Inc

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