Still image warning

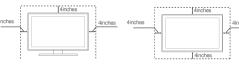
Avoid displaying still images (such as jpeg picture files) or still image elements (such as TV channel logos, panorama or 4:3 image format, stock or news bars at screen bottom etc.) on the screen. Constant displaying of still pictures can cause ghosting of LED screen, which will affect image quality. To reduce risk of this effect, please follow

- Avoid displaying the same TV channel for long periods. · Always try to display any image on full screen, use TV set picture format menu for
- Reduce brightness and contrast values to minimum required to achieve desired picture quality, exceeded values may speed up the burnout process.
 Frequently use all TV features designed to reduce image retention and screen

Keep the required distances between the product and other objects (e.g. walls) to ensure proper ventilation.

- vith the product or an injury due to the product falling
- Re careful when you contact the TV because some parts can be somewhat hot.





Contact SAMSUNG WORLDWIDE

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

4000

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	Country	Customer Care Center	Web Site
	MEXICO	01-800-SAMSUNG (726-7864)	www.samsung.com
		Dirección: GENERAL MARIANO ESC	
		COL. ANZURES, DELEGACIÓN MIGU FEDERAL C.P. 11590	EL HIDALGO MÉXICO, DISTRITO
	ARGENTINE	0800 333 3733	www.samsung.com.ar
	URUGUAY	000 405 437 33	www.samsung.com
	PARAGUAY	009 800 542 0001	www.samsung.com.py
	BRAZIL	0800-124-421 (Demais cidades e regiões) 4004-0000 (Capitais e grandes	www.samsung.com.br
		centros)	
	CHILE	800-SAMSUNG(726-7864)	www.samsung.com/cl
	BOLIVIA	800-10-7260	www.samsung.com
	COLOMBIA	01 8000 112 112 Bogotá 600 12 72	www.samsung.com/co
	COSTA RICA	0-800-507-7267	www.samsung.com/latin (Spanish)
			www.samsung.com/latin en (English)
	DOMINICA	1-800-751-2676	www.samsung.com/latin (Spanish)
			www.samsung.com/latin_en (English)
	ECUADOR	1-800-10-7267	www.samsung.com/latin (Spanish)
			www.samsung.com/latin_en (English)
	EL SALVADOR	800-6225	www.samsung.com/latin (Spanish)
			www.samsung.com/latin_en (English)
	GUATEMALA	1-800-299-0013	www.samsung.com/latin (Spanish)
			www.samsung.com/latin_en (English)
	HONDURAS	800-27919267	www.samsung.com/latin (Spanish)
			www.samsung.com/latin_en (English)
	JAMAICA	1-800-234-7267	www.samsung.com
	NICARAGUA	001-800-5077267	www.samsung.com/latin (Spanish)
			www.samsung.com/latin_en (English)
-	PANAMA	800-7267	www.samsung.com/latin (Spanish)
			www.samsung.com/latin_en (English)
	PERU	0-800-777-08	www.samsung.com/pe
	PUERTO RICO	1-800-682-3180	www.samsung.com
	TRINIDAD & TOBAGO	1-800-SAMSUNG (726-7864)	www.samsung.com

VENEZUELA 0-800-100-5303

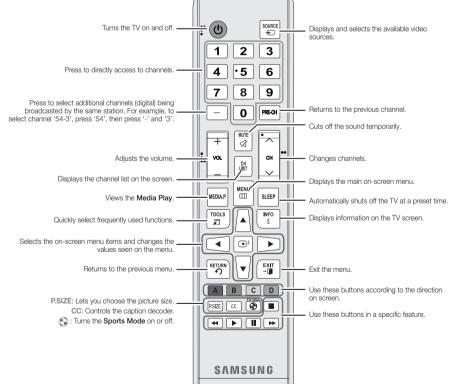
MPORTADO POR : SAMSUNG ELECTRONICS MÉXICO S.A. DE C.V.

- GENERAL MARIANO ESCOREDO 476 PISO 8
- I TEL : 01 (55) 5747-5100 / 01 800 726 7864

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Remote Control

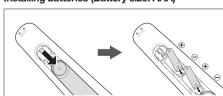
🖎 This remote control has Braille points on the Power, Channel, and Volume buttons and can be used by visually impaired persons



Display Modes (HDMI/DVI Input

	7 IVIOGES 866 x 768@6	•		,	łz		
Mode	Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H / V)	1366 x 768	1920 x 10
IBM	720 x 400	31.469	70.087	28.322	-/+	✓	~
	640 x 480	35	66.667	30.24	-/-	√	~
MAC	832 x 624	49.726	74.551	57.284	-/-	✓	✓
IVIAO	1152 x 870	68.681	75.062	100	-/-		~
	640 x 480	31.469	59.94	25.175	-/-	√	~
	640 x 480	37.861	72.809	31.5	-/-	~	✓
	640 x 480	37.5	75	31.5	-/-	✓	✓
	800 x 600	37.879	60.317	40	+/+	✓	✓
	800 x 600	48.077	72.188	50	+/+	√	✓
	800 x 600	46.875	75	49.5	+/+	✓	✓
	1024 x 768	48.363	60.004	65	-/-	√	V
	1024 x 768	56.476	70.069	75	-/-	√	✓
	1024 x 768	60.023	75.029	78.75	+/+	✓	✓
VESA DMT	1152 x 864	67.5	75	108	+/+		✓
	1280 x 720	45	60	74.25	+/+	✓	✓
	1280 x 800	49.702	59.81	83.5	-/+		✓
	1280 x 1024	63.981	60.02	108	+/+		~
	1280 x 1024	79.976	75.025	135	+/+		~
	1366 x 768	47.712	59.79	85.5	+/+	✓	✓
	1440 x 900	55.935	59.887	106.5	-/+		✓
	1600 x 900RB	60	60	108	+/+		

Installing batteries (Battery size: AAA)



NOTE

Use the remote control within 23 feet from TV.

· Bright light may affect the performance of the remote control.

• The Color and shape may vary depending on the model.

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MEXICO	01-800-SAMSUNG (726-7864)	www.samsung.com				
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	COL. ANZURES, DELEGACIÓN MIGUEL HIDALGO MÉXICO, DISTRITO					
	FEDERAL C.P. 11590					
ARGENTINE	0800 333 3733	www.samsung.com.ar				
URUGUAY	000 405 437 33	www.samsung.com				
PARAGUAY	009 800 542 0001	www.samsung.com.py				
BRAZIL	0800-124-421 (Demais cidades	www.samsung.com.br				
	e regiões)					
	4004-0000 (Capitais e grandes					
	centros)					
CHILE	800-SAMSUNG(726-7864)	www.samsung.com/cl				
BOLIVIA	800-10-7260	www.samsung.com				
COLOMBIA	01 8000 112 112	www.samsung.com/co				
	Bogotá 600 12 72					
COSTA RICA	0-800-507-7267	www.samsung.com/latin (Spanish)				
		www.samsung.com/latin_en (English)				
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PANAMA	800-7267	www.samsung.com/latin (Spanish)				
		www.samsung.com/latin_en (English)				
PERU	0-800-777-08	www.samsung.com/pe				

- COL. ANZURES, DELEGACIÓN MIGUEL HIDALGO MÉXICO, DISTRITO

www.samsung.com/ve

☐ Seeing Channels

Channel List

Add, delete or set Favorite channels and use the program guide for digital broadcasts. Select a channel in the All Channels, Added Channels, Favorite or Programmed screen by pressing the ▲/▼ buttons, and pressing the ENTER 🗗 button. Then you can watch the

- All Channels: Shows all currently available channels ■ → Added Channels: Shows all added channels.
- **Favorite**: Shows all favorite channels.
- Programmed: Shows all currently reserved programs
- Using the remote control buttons with the Channel List Green (Zoom): Enlarges or shrinks a channel number. • Yellow (Select): Selects multiple channel lists. Select desired channels and press the Yellow button to set all the selected channels at the same time. The 🗸 mark appears to the left of
- 🞵 (Tools): Displays the Channel List option menu. (The Options menus may differ depending on the situation.)

- **Channel Status Display icons** ✓: A channel selected
- • : A channel set as a Favorite.
- C : A reserved program. : A program currently being broadcast.

■ Memorizing channels

Antenna (Switch to Cable / Switch to Air TOOLS 7)

nust specify the type of signal source that is connected to the TV (i.e.

Auto Program

When selecting the Cable TV system: Selects the cable system. STD, HRC and IRC identify various types of cable TV systems. Contact your local cable company to identify the type of cable system that exists in your particular area. At this point, the signal

source has been selected. After all the available channels are stored, it starts to remove scrambled channels. The Auto Program menu then reappears.

Press the ENTER button to stop the channel store during Auto

How to Stop Auto Programming

1. Press the ENTER button 2. A message will ask Stop Auto Program?. Select Yes by pressing

3. Press the ENTER button.

☐ Other Features

Clear Scrambled Channel

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

This function is only available in Cable mode

Channel List → TOOLS;

Set each channel using the Channel List menu options. Option menu

present inside. It is dangerous to make any kind

of contact with any internal part of this product. This symbol indicates that important literature

This symbol indicates that high voltage is

concerning operation and maintenance has been included with this product.

• The slots and openings in the cabinet and in the back or bottom are provided for necessary ventilation. To ensure reliable operation of this apparatus, and to protect it from overheating, these slots and openings must never be blocked or covered

Warning! Important Safety Instructions

Please read the safety instructions below before installing and using the product.

- Do not cover the slots and openings with a cloth or other materials. - Do not block the slots and openings by placing this apparatus on a bed, sofa, rug or other similar surface

- Do not place this apparatus in a confined space, such as a bookcase or built-in cabinet, unless proper ventilation is provided. • Do not place this apparatus near or over a radiator or heat register, or where it is exposed to direct sunlight. • Do not place a vessel containing water (vases etc.) on this apparatus, as this can result in a risk of fire or electric shock.

• Do not expose this apparatus to rain or place it near water (near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool etc.). If this apparatus accidentally gets wet, unplug it and contact an authorized dealer immediately. • Make sure to pull out the power cord from the outlet before cleaning.

• This apparatus use batteries. In your community, there might be regulations that require you to dispose of these batteries properly to protect the environment. Please contact your local authorities for disposal or recycling information.

 Do not overload wall outlets, extension cords, or adaptors beyond their capacity, since this can result in fire or electric shock. • Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them. Pay particular attention to cords at the plug end, where connected to adaptors, and at the point where they exit from the apparatus.

• To protect this apparatus from a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the set due to lightning and power line surges. • Before connecting the AC power cord to the DC adaptor outlet, make sure the voltage designation of the DC adaptor corresponds to the local electrical supply. (depending on the model)

• Never insert anything metallic into the open parts of this apparatus. Doing so may create a danger of electric shock. • To avoid electric shock, never touch the inside of this apparatus. Only a qualified technician should open this apparatus. • Make sure to plug the power cord in until it is firmly inserted. Pull on the plug, not the cord, when removing the power cord from the outlet. Do

• If this apparatus does not operate normally - in particular, if there are any unusual sounds or smells coming from it - unplug it immediately and

 Be sure to pull the power plug out of the outlet if the TV is to remain unused or if you are to leave the house for an extended period of time (especially when children, elderly or disabled people will be left alone in the house). - Accumulated dust can cause an electric shock, an electric leakage, or a fire by causing the power cord to generate sparks and heat,

or cause the insulation to deteriorate. • Be sure to contact an authorized service center, when installing your set in a location with heavy dust, high or low temperatures, high humidity, chemical substances or where it will operate for 24 hours a day such as in an airport, a train station, etc. Failure to do so may cause serious damage to your set.

 Use only a properly grounded plug and receptacle. - An improper ground may cause electric shock or equipment damage. (Class I Equipment only.)

• To turn off the apparatus completely, you must pull the power plug out of the wall socket. Consequently, the power plug should be readily

• Do not allow children to hang onto the product.

• Store the accessories (batteries, etc.) in a location safely out of the reach of children.

• Do not install the product in an unstable location such as a shaky self, a slanted floor, or a location exposed to vibration,

• Do not drop or impart a shock to the product, If the product is damaged, disconnect the power cord and contact a service center. • To clean the product, unplug the power cord from the power outlet and wipe the product using a soft cloth dipped in a small amount of water Do not use any chemicals such as wax, benzene, alcohol, thinners, insecticide, air freshener, lubricant or detergent. This may damage the

appearance or erase the printing on the product. • Do not expose the apparatus to dripping or splashing.

CAUTION

SHOCK DO NOT REMOVE COVER (OR BACK). THERE

ARE NO USER SERVICEABLE PARTS INSIDE. REFER

ALL SERVICING TO QUALIFIED PERSONNEL.

- Do not dispose of batteries in a fire.
- Do not short circuit, disassemble, or overheat the batteries
- There is a danger of explosion if you replace the batteries with the wrong type of battery. Replace only with the same or equivalent type.

• WARNING - TO PREVENT THE SPREAD OF FIRE, KEEP CANDLES OR OTHER OPEN FLAMES AWAY FROM THIS PRODUCT AT ALL

■ Add / Delete: Delete or add a channel to display the channels you

All deleted channels will be shown on the All Channels menu A gray-colored channel indicates the channel has been deleted. The Add menu only appears for deleted channels.

Delete a channel from the Added Channels or Favorite menu in ■ Add to Favorite / Delete from Favorite TOOLS : Set channels you

watch frequently as Favorites. ■ Timer Viewing: You can set a desired channel to be displayed automatically at the set time; even when you are watching another

channel. Set the current time first to use this function. Only memorized channels can be reserved. Reserved programs will be displayed in the Programmed menu. When a digital channel is selected, press the ► (Next Program) button to view the digital program. If you select the ENTER ☐

(Schedule) button on the next program, you can set Timer Viewing directly.

Channel Name Edit: (analog channels only) Assign your own

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

■ Deselect All: Deselect all the selected channels. You can only select **Deselect All** when one or more channels

■ Auto Program: Scans for a channel automatically and stores in the

Programmed

■ Change Info: Change a show you have reserved to watch. ■ Cancel Schedules: Cancel a show you have reserved to watch.

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

Channel Mode

Change the channel mode directly between Added Channels and Favorite Channels. The Favorite Channels is enabled only when you set Add to

Fine Tune

(analog channels only)

If the reception is clear, you do not have to fine tune the channel, as this is done automatically during the search and store operation. If the signal is weak or distorted, fine tune the channel manually.

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

To reset the fine-tuning, select Reset.

Picture Menu

Select your preferred picture type

■ **Dynamic**: Suitable for a bright room. ■ Standard: Suitable for a normal environment. ■ Movie: Suitable for watching movies in a dark room.

■ Entertain: Suitable for watching movies and games. Only available when connecting a PC.

Getting Started Accessories

Owner's Instructions

Remote Control & Batteries (AAA x 2)

Power Cord

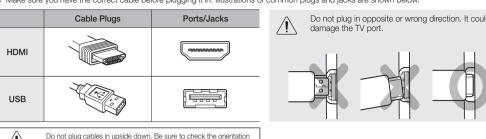
• AC/DC Adapter (for 19", 22" models) Cable Manager (for 28"models)

Input Cables (Sold Separately)

• Warranty Card / Regulatory Guide

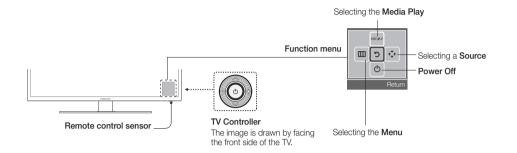
HDMI HDMI-DVI Composite (AV) Coaxial (RF)

Make sure you have the correct cable before plugging it in. Illustrations of common plugs and jacks are shown below



TV Controller (Panel Key)

The TV's Controller, a small joy stick like button on the rear left side of the TV, lets you control the TV without the remote control.



Exits the menu when pressing the controller more than 1 second When selecting the function by moving the controller to the up/down/left/right directions, be sure not to press the controller. If you press it first. you cannot operate it to move the up/down/left/right directions

Plug & Play (Initial Setup)

When you turn the TV on for the first time, a sequence of screens and on-screen prompts will assist you in configuring the TV's basic settings. Press e POWER button. Plug & Play is available only when the Input source is set to TV. Set the initial setup following instructions that the TV guides. Connecting the power cord and antenna. (refer to 'Connections')

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) Your television has several setting options for picture quality control. When connecting a PC, you can only make changes to **Backlight**, Contrast, Brightness and Sharpness.

Advanced Settings

(available in Standard / Movie mode) Compared to previous models, new Samsung TVs have a more precis

When connecting a PC, you can only make changes to Gamma and ■ Dynamic Contrast: Adjusts the screen contrast.

■ Black Tone: Selects the black level to adjust the screen depth ■ Flesh Tone: Emphasize pink "flesh tone".

■ Color Space: Adjusts the range of colors available to create the ■ White Balance: Adjusts the color temperature for a more natural

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

Reset: Resets the White Balance to it's default settings. ■ Gamma: Adjusts the primary color intensity. ■ Motion Lighting: Reduce power consumption by brightness control

Available in **Standard** mode only.

most of the time.

Picture Options When connecting a PC, you can only make changes to the Color Tone, Size, and HDMI Black Level. ■ Color Tone

Narm1 or Warm2 will be deactivated when the picture mode is ■ Size: Your cable box/satellite receiver may have its own set of screen sizes as well. However, we highly recommend you use 16:9 mode

16:9: Sets the picture to 16:9 wide mode. Zoom1: Use for moderate magnification. Zoom2: Use for a stronger magnification.

Do not watch in 4:3 format for a long time. Traces of borders

Screen Fit: (DTV) Displays the full image without any cut-off when are inputted.

HD (High Definition): 16:9 - 1080i/1080p (1920x1080), 720p

16:9, Zoom1, Zoom2, 4:3 ATV, AV, Component (480i, 480p)

16:9, Wide Fit, 4:3, 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

When the signal is weak, try other options until the best picture ■ MPEG Noise Filter: Reduces MPEG noise to provide improved

■ HDMI Black Level: Selects the black level on the screen to adjust the

■ 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

selected mode to the default settings.

Resets your current picture mode to its default settings ■ Reset Picture Mode: Returns all picture values in the currently

Mode Tools 7

■ 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

(standard sound mode only)

■ Balance L/B: Adjusts the balance between the right and left speaker ■ 100Hz / 300Hz / 1kHz / 3kHz / 10kHz (Bandwidth Adjustment):

date, request an upgrade.

Set-top box / Blu-ray player / DVD

• For the best picture and audio quality, connect digital devices using an HDMI cable.

Be sure to purchase a certified HDMI cable. Otherwise, the picture

may not display or a connection error may occur.

PC/DVI AUDIO IN input is not supported.

- For an HDMI to DVI cable connection, you must use the HDMI II • If you connect an external device to the TV that uses an older version
- 2 (DVI) port. Connecting through the HDMI cable may not be supported of HDMI, the video and audio may not work. If this occurs, ask the manufacturer of the device about the HDMI version and, if it is out of
 - depending on the Po
 - If an HDMI to DVI cable is connected to the HDMI IN 2 (DVI) port,

 - the audio does not work.

 - For Set-top box connection using HDMI cable, we highly recommend you to connect the HDMI IN 1 (STB) port
 - AV connection g an HDMI (to DVI) Cable) VCR / Blu-ray playe TV Rear Panel

 The position of the port may differ (for 28" models

TV Side Panel (PAUDIO (P P P) (for 19", 22" models **O**+

Changing the Input Source

Component connection

Blu-ray player / DVD

Use to select TV or an external input source such as a DVD player / Bluay player / cable box / STB satellite receiver.

You can only choose external devices that are connected to the TV. In the **Source List**, connected inputs will be highlighted.

DTS TruSurround is a patented DTS technology that solves the problem

delivers a compelling, virtual surround sound experience through any wo-speaker playback system, including internal television speakers. It is

Digital-TV broadcasts are capable of simultaneous transmission of many

udio tracks (for example, simultaneous translations of the program into

You can only select a language from among the ones being

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

■ Stereo: Choose for channels that are broadcasting in stereo.

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

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

Because each broadcasting station has its own signal conditions, the

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

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

and MUTE buttons will not operate and the sound settings will

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

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

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

are having difficulty receiving a stereo signal.

sound output when the modulation signal is low.

usually a foreign-language translation.

of playing 5.1 multichannel content over two speakers. TruSurround

Source List

DTS TruSurround

(standard sound mode only)

Preferred Language

(digital channels only)

oreign languages).

broadcasted

(analog channels only)

Auto Volume

Speaker Select

Visual Impaired

(digital channels only)

Sound Reset

Multi-Track Sound

fully compatible with all multichannel formats.

1. Press the SOURCE button. 2. Select a desired external input source ■ TV / AV / Component / HDMI1 / HDMI2/DVI

How to use Edit Name Edit Name lets vou associate a device name to an input source. To access Edit Name, press the TOOLS button in Source List. Name the device connected to the input jacks to make your input source selection

Headphones connection

When connecting a PC to the HDMI IN 2(DVI) port with HDMI cable, you should set the TV to PC mode under Edit Name.

When connecting a PC to the HDMI IN 2(DVI) port with HDMI

to DVI cable, you should set the TV to DVI PC mode under Edit When connecting an AV devices to the HDMI IN 2(DVI) port with

Information

You can see detailed information about the connected external device.

HDMI to DVI cable, you should set the TV to DVI mode under Edit

Language

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

The current time will appear every time you press the INFO button ■ Clock: Setting the clock is for using various timer features of the TV.

Clock Set: Set the Month, Day, Year, Hour, Minute and am/pm. Available only when Clock Mode is set to Manual.

Time Zone: Select your time zone. DST: (Daylight Saving Time) Switches the DST (Daylight Saving Time) function on or off.

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

volume may fluctuate each time channel is changed. This feature lets you automatically adjust the volume of the desired channel by lowering Three different on / off timer settings can be made. You must set the ■ On Time / Off Time: Set the hour, minute, am/pm and Activate /

Inactivate. (To activate the timer with the setting you have chosen, set to **Activate**.)

- TV/USB: Select TV or USB. (Make sure that an USB device is connected to your TV.) Antenna: Displays the current antenna source.

Music/Photo: Select the folder containing MP3/JPEG files on the USB device. The maximum displayed number of files, including sub folders, in When Speaker Select is set to External Speaker, the VOLUME

lower than USB 2.0. ■ Repeat: Select Once, Everyday, Mon~Fri, Mon~Sat, Sat~Sun or Manual to set at you convenience. If you select Manual, you can set

up the day you want to activate the timer.

Channel: Select the desired channel.

□ Other Features

Game Mode When connecting to a game console such as PlayStation $^{\text{TM}}$ or $Xbox^{\text{TM}}$, you can enjoy a more realistic gaming experience by selecting the game

Precautions and limitations for game mode • To disconnect the game console and connect another external device, set **Game Mode** to **Off** in the setup menu.

Game Mode is not available when the input source is set to TV.

After connecting the game console, set Game Mode to On. Unfortunately, you may notice reduced picture quality.

2013-10-17 오전 11:02 01

Avoid use when nearby fluorescent lights or neon signs.

Channel List **Channel List Option Menu**

(in Channel List) You can view, modify or delete a show you have reserved to watch

■ Information: Display a show you have reserved to watch. (You can

Fine tuned channels that have been saved are marked with an

Mode Tools₁ When connecting a PC, you can only select Entertain and

Wide Fit: Enlarges the aspect ratio of the picture to fit the entire 4:3: Sets the picture to basic (4:3) mode

displayed on the left, right and center of the screen may cause image retention (screen burn) which are not covered by the

Settings can be adjusted and stored for each external device you have connected to an input on the TV. Picture Sizes available by Input Source:

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

static and ghosting that may appear on the screen

Available only in HDMI mode (RGB signals).

■ Standard: Selects the normal sound mode. ■ Music: Emphasizes music over voices.

Adjusts the level of specific bandwidth frequencies

■ Reset: Resets the equalizer to its default settings.

		(KHz)	(Hz)	(MHz)	(H / V)		
IBM	720 x 400	31.469	70.087	28.322	-/+	✓	✓
	640 x 480	35	66.667	30.24	-/-	✓	✓
MAC	832 x 624	49.726	74.551	57.284	-/-	✓	~
	1152 x 870	68.681	75.062	100	-/-		✓
	640 x 480	31.469	59.94	25.175	-/-	✓	✓
	640 x 480	37.861	72.809	31.5	-/-	✓	✓
	640 x 480	37.5	75	31.5	-/-	✓	· · · · · · · · · · · · · · · · · · ·
	800 x 600	37.879	60.317	40	+/+	✓	
	800 x 600	48.077	72.188	50	+/+	✓	
	800 x 600	46.875	75	49.5	+/+	✓	~
	1024 x 768	48.363	60.004	65	-/-	✓	✓
	1024 x 768	56.476	70.069	75	-/-	✓	✓
	1024 x 768	60.023	75.029	78.75	+/+	✓	✓
VESA DMT	1152 x 864	67.5	75	108	+/+		~
	1280 x 720	45	60	74.25	+/+	✓	✓
	1280 x 800	49.702	59.81	83.5	-/+		✓
	1280 x 1024	63.981	60.02	108	+/+		✓
	1280 x 1024	79.976	75.025	135	+/+		V
	1366 x 768	47.712	59.79	85.5	+/+	✓	✓
	1///0 v 000	55 025	50 997	106.5	-/-		-/



burnout, refer to proper user manual section for details. Securing the Installation Space

Failing to do so may result in fire or a problem with the product due to an increase in ne internal temperature of the product. When using a stand or wall-mount, use parts provided by Samsung Electronics If you use parts provided by another manufacturer, it may result in a problem

The appearance may differ depending on the product.

VHF/UHF Antenn

If you disconnect the power cord, you have to set the clock again.
Clock Mode: Set the current time manually or automatically.

DST and Time Zone function is only available when the Clock ■ Sleep Timer TOOLS

Timer 1 / Timer 2 / Timer 3

ovie through an Contents: When the On Time is activated, you can turn on a specific channel or play back contents such as photo or audio files.

one folder of USB storage device is 2000. The media may not be playing smoothly when using the device If there is no video signal, both the TV's speakers and the external

• If you display the TV menu in **Game Mode**, the screen shakes

Program Rating Lock

The **Program Rating Lock** feature automatically locks out programs that are deemed inappropriate for children. The user must enter a PIN (personal identification number) before any of the Program Rating Lock ictions are set up or changed.

Program Rating Lock is not available in HDMI or Component

The default PIN number of a new TV set is "0-0-0-0". ■ Program Rating Lock: You can block rated TV Programs.

■ TV Parental Guidelines: You can block TV programs depending on their rating. This function allows you to control what your children are

- MPAA Rating: You can block movies depending on their MPAA rating. The Motion Picture Association of America (MPAA) has implemented a rating system that provides parents or guardians with advanced information on which films are appropriate for children
- Canadian English: You can block TV programs depending on their
- Canadian French: You can block TV programs depending on their ■ Downloadable U.S. Rating: Parental restriction information can be
- Change PIN: The Change PIN screen will appear. Choose any 4 digits for your PIN and enter it in Enter New PIN. Re-enter the same 4 digits in Confirm New PIN. When the Change PIN screen disappears, press the OK button. The TV has memorized your new PIN.
- If you forget the PIN, press the remote-control buttons in the following sequence, which resets the pin to "0-0-0-0" : POWER (off) \rightarrow MUTE \rightarrow 8 \rightarrow 2 \rightarrow 4 \rightarrow POWER (on)

Caption

(On-Screen Text Messages)

Troubleshooting

Flickering and Dimming

Component Connections

Screen Brightness

Unwanted Powering off

Trouble Powering On

Stand Assembly

Poor picture

Cannot find channel

The picture is distorted: macroblock error.

Color is wrong or missing

There is poor color or brightness

The picture is black and white.

There is a dotted line on the edge of the

Problem

- Caption: You can switch the caption function on or off. If captions ar not available, they will not be displayed on the screen. The Caption feature does not work in Component or HDMI
- Caption Mode: You can select the desired caption mode Default / CC1~CC4 / Text1~Text4: (analog channels only) The Analog Caption function operates in either analog TV channel mode or when a signal is supplied from an external device to the TV.
- (Depending on the broadcasting signal, the Analog Caption function may or may not work with digital channels.) Default / Service1~Service6 / CC1~CC4 / Text1~Text4: (digital channels only) The Digital Captions function works with digital
- Service1~6 may not be available in digital caption mode
- ending on the broadcast.
- Digital Caption Options: (digital channels only) Size: Options include Default, Small, Standard and Large. The default
- 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 letter. The default is White.
- Background Color: Options include Default, White, Black, Red, Green, Blue, Yellow, Magenta and Cyan. You can change the background color of the caption. The default is Black.

Default, Transparent, Translucent, Solid and Flashing.

com, then click on Support, or call Samsung customer service

Possible Solution

AV Out jack on your video source.

mouse. Then try turning your TV on.

Background Opacity: This adjusts the opacity of the caption background. Options include Default, Transparent, Translucent, Solid and Flashing.

Return to Default: This option sets each Size. Font Style. Foreground olor, Background Color, Foreground Opacity and Background pacity to its default.

Digital Caption Options are available only when Default and Service1~Service6 can be selected in Caption Mode. The Foreground and Background cannot be set to have the same

Melody

Set so that a melody plays when the TV is turned on or off. The Melody does not play

- 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 butto When the TV is turned off by Sleep Timer function.

Eco Solution

- Energy Saving: This adjust the brightness of the TV in order to reduce power consumption. If you select **Picture Off**, the screen is turned off, but the sound remains on. Press any button except volume
- No Signal Power Off: Sets how quickly the TV switches to standby node, if no picture is being received. Disabled when the PC is in power saving mode
- Auto Power Off: The TV will be automatically turned off when no user operation is received for 4 hours.

Auto Protection Time

button to turn on the screen.

If the screen remains idle with a still image for a certain period of time defined by the user, the screen saver is activated to prevent the formation of ghost images on the screen.

Self Diagnosis

- Picture Test: Use to check for picture problems. If the problem ontinues to occur, check the color pattern
- Sound Test: Use the built-in melody sound to check for sound
- Signal Strength: (digital channels only) An HD channel's recention quality is either perfect or the channels are unavailable. Adjust your antenna to increase signal strength.
- Reset: Reset all settings to the factory defaults. The PIN input screen appears before the setup screen Enter your 4-digit PIN. Change the PIN using the Change PIN

Software Upgrade

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

HD Connection Guide

If your Samsung Television is flickering or dimming sporadically, you may need to disable some of its energy efficient features like the **Energy Saving** feature. If you follow below step with your remote, you can turn these features off or on.

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

· Your connections are all consistent. For example, if you've used the AV In jack on your TV, make sure you have used the

Try making sure you have connected to the correct jacks. For example, if you use the Component jacks, labeled Pb, Pr, and Y, to connect your TV and video source, make sure you have connected the blue Pb lack on the video source.

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 in to "Picture" on user Menu then try

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.

st make sure you **Sleep Timer** is not accidentally set. The sleep timer allows you the comfort of falling asleep with the TV II on but, turns it off after a certain period of time so as not to waste energy.

Before Turn on check red light on the right or left bottom of your TV. Press power on button on TV or remote and it

(f 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

If you're sure you' power cord, remote control, and PC are functioning properly, you may be having a cable issue. If you ha 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 t 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.

Compression of video contents may cause picture distortion, especially on fast moving pictures such as sports and action.

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 TV.

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

Adjust the Energy Saving option in the TV menu. (Go to MENU - Setup - Eco Solution - Energy Saving)

Adjust the Picture options in the TV menu. (Go to Picture Mode / Color / Brightness / Sharpness

. Try resetting the picture to view the default picture setting. (Go to MENU - Picture - Picture Reset)

If you have any trouble to assemble the stand though you refer to "Install the Stand" mentioned at separate quide

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

Refer to this information when connecting external devices to the TV.

Contact Samsung

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.

Energy Saving : MENU → Setup → Eco Solution → Energy Saving

to make sure there are no device issues.
 Self Diagnosis : MENU → Support → Self Diagnosis → Picture Test

Sleep Timer : MENU → Setup → Time → Sleep Timer

Go to MENU - Support - Self Diagnosis - Picture Test

Auto Power Off : $MENU \rightarrow Setup \rightarrow Eco Solution \rightarrow Auto Power Off$

power button, your PC is in sleep mode. To take your PC out of sleep mode, press a key

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

The TV image does not look as good as it If you have an analog cable/satellite box, upgrade to a digital set top box. Use HDMI or Component cables to deliver HD (high

Many HD channels are up scaled from SD(Standard Definition) contents

may cause color problems or a blank screen

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 probler

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

Cable/Satellite subscribers: Try HD channels from the channel line up. ir/Cable Antenna connection: Try HD channels after performing Auto program

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

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

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

Application Menu

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



Connecting a USB Device

- 1. Turn on your TV.
- 2. Connect a USB device containing photo, music and/or movie files to the USB jack on the side of the TV.
- 3. When USB is connected to the TV, you can select Media Play (USB) in Applications menu

Using the Media Play Menu

- 1. Press the MENU button. Press the ▲ or ▼ button to select
- Applications, then press the ENTER button. 2. Press the ▲ or ▼ button to select Media Play (USB), then press the ENTER button. 3. Press the ◀ or ▶ button to select an icon (Videos, Music, Photos,
- Settings), then press the ENTER → button. It might not work properly with unlicensed multimedia files.
- 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 Card Readers. Devices should be connected directly to the TV's USB port. USB HDD is not supported.
- Before connecting your device to the TV, please back up your files to prevent them from damage or loss of data, SAMSUNG is not onsible for any data file damage or data loss.
- · A USB device that requires high power (more than 0.5A) may not
- 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. • The maximum supported JPEG resolution is 15360 x 8640 pixels.
- If a file is corrupted or the TV does not support the file type, the "Not Supported File Format" message appears.
 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 billings and settlements • PTP device is 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.

released automatically when your connect them to the TV.

 If the TV has no input during the time set in Auto Protection Time, the Screensaver will run. • The power-saving mode of some external hard disk drives may be

- USB device or may not be able to read the files on the device.

 If a USB device connected to the TV is not recognized, the list of files on the device is corrupted, or a file in the list is not played connect the USB device to a PC, format the device, and check the connection.
- If a file you deleted from the PC is still found when you run Media Play, use the "Empty the Recycle Bin" function on the PC to rmanently delete the file.
- Photos only supports sequential jpeg format. • The scene search and thumbnail functions are not supported in
- If the number of files and folders saved on a USB storage device is approximately over 4000, the files and folders may not appear and

The media may not be playing smoothly when using the device

some folders may not be opened. The maximum displayed number of files, including sub folders, in one folder of USB storage device is 2000.

lower than USB 2.0.

1. Press the
✓/ buttons to select Videos, then press the ENTER button in the Media Play menu.

- The selected file is displayed on the top with its playing time

- 2. Press the ✓/►/▲/▼ buttons to select the desired video in the file
- 3 Press the FNTER → button or ► (Play) button.
- If video time information is unknown, playing time and the progress bar are not displayed. During video playback, you can search using the ◀/▶ buttons.
- In this mode, you can play movie clips contained in a game, but you cannot play the game itself. Supported Subtitle Formats

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

	Xsub	AVI	F
	SubStation Alpha	MKV	
	Advanced SubStation Alpha	MKV	
Ī	SubRip	MKV	
•	MDEO 4 Timed to 4	MD4	

Fil	е	Container	Video Codec	Resolution	Frame	Bit rate	Audio
Supported Video Formats							
	MPEG-4 Timed text			MP4		Text Format	
	SubRip			MK	V	Text Format	
Advanced SubStation Alpl		Station Alpha	MKV		Text Format		
	SubStation Alpha			MKV		Text Format	

	tou video					
File Extension	Container	Video Codec	Resolution	Frame rate (fps)	Bit rate (Mbps)	Audio Codec
		Divx3.11/4.x/ 5.1/6.0	1920x1080	6~30	30Mbps	MP3 / ADPCM / AAC
*.mp4	MP4	H264	1920x1080	6~30	30Mbps	
	"AVI MKV"	AVC	1920x1080	6~30	30Mbps	
		MJPEG	640x480	6~30	10Mbps	
		Divx3.11/4.x/ 5.1/6.0	1920x1080	6~30	30Mbps	"MP3 /
"*.avi *.mkv"		MPEG4 SP/ ASP	1920x1080	6~30	30Mbps	AC3 / LPCM / ADPCM / DTS
JIIIN	IVIIXV	H264	1920x1080	6~30	30Mbps	
		MJPEG	640x480	6~30	10Mbps	Core"

If connected to a cable box, please try to reset it. (Reconnect the AC cord and wait until the cable box reboots. It may take
up to 20 minutes)

If you are using an external device, check the device's audio output option (ex. you may need to change your cable box's
audio option to HDMI when you have a HDMI connected to your TV).

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

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.

or 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.

gram 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.

. 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.

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

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

Be sure to select the TV's correct source by pressing the SOURCE button on the remote control.

dd available channels to the channel list.

• Set the output resolution of the cable box to 1080i or 720p

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

There is no sound or the sound is too low at Please check the volume 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.

. Make sure the coaxial cable is connected securel

· Verify the antenna is positioned correctly

· Some channels may not have caption data

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

Reboot the connected device by reconnecting the device's power cable.

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

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

The picture is distorted: macroblock, error.

Compression of video contents may cause picture distortion. Especially on fast moving pictures such as sports and action

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

Replace the remote control batteries with correct polarity (+/-

Try pointing the remote directly at the TV from 5~6 feet away.

Caption must be activated on the external device.

Clean the transmission window located on the top of the remote control

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

Reboot the connected device by reconnecting the device's power cable.

First of all, please perform the **Sound Test** to confirm that your TV audio is properly operating.

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

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

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

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

File xtension Container Video Codec Resolution Frame rate (fps) (Mbps) Codec 1920x1080 6~30 30Mbps 1920x1080 6~30 30Mbps ASP H.264 1920x1080 6-30 30Mbps H. 264 BP/ 1920x1080 6~30 30Mbps 1920v1080 6-30 30Mbps 1920x1080 6~30 30Mbps H.264 1920x1080 6~30 30Mbps 1920x1080 6~30 30Mbps

- Sound or video may not work if the contents have a standard bit rate/

Video Decoder	Audio 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	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

- 3. Press the ENTER → button or ► (Play) button
- Only displays the 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 playing MP3 files, adjust the Equalizer in the Sound menu. (An over-modulated MP3 file may cause a sound problem.)

Photos

- While a photo list is displayed, press the 🕨 (Play) / ENTER 🗗
- button on the remote control to start the 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 file using the ◀/▶ buttons. Supported Photo Formats Image JPFG Other Restrictions CMYK and YCCK Color space JPEGs are not supported.

Playing Multiple Files ■ Playing selected video/music/photo files 1. Press the Yellow button in the file list to select the desired file. 2. Repeat the above operation to select multiple files.

- The

 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 and select Deselect All.

Base-line

Resolution

15360 x 8704

Violena Munia Dhatas

3. Press the TOOLS button, and then select Play Selected Contents. ■ Playing the video/music/photo file group 1. While a file list is displayed, move to any file in desired group.

Media Play - Additional Functions

■ Videos/Music/Photos Play Option menus a file press the TOOLS button

ategory	Operation	Videos	Music	Photos
ïtle	You can move the other file 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.	~		~
ound Mode	You can adjust the sound setting.	~	~	~
Subtitle Settings	You can play the video with Subtitles. This function only works if the subtitles are the same file name as the video.	~		
audio Format	You can select the digital audio output format.	~		
udio 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.			~
lide 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.			~
loom.	You can zoom into images in full screen mode.			~
Rotate	You can rotate images in full screen mode.			~
nformation	You can see detailed information about the played file.	~	✓	~

Settings

Sports Mode

Other Information

ere personal injury.

NOTE

Installing the Wall Mount Kit

if you elect to install the wall mount on your own

Wall Mount Kit Specifications (VESA)

The wall mount kit is not supplied, but sold separately.

Using the Setup Menu

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 ■ DivX® Video On Demand: Shows the registration code authorized for the TV. If you connect to the DivX web site and register with O-digit registration code, you can download the VOD activation file the TV to tip over, resulting in serious injuries or death. Once you play it using Media Play, the registration is completed. Follow all safety precautions provided on the included Safety Flyer. For added stability, install the anti-fall device for Sor more information on DivX® VOD, visit "http://vod.divx.com" safety purposes, as follows. ■ Information: Select to view information on the connected device

To prevent the TV from falling ☐ Using the Sports Mode

please purchase these additionally.

Securing the TV to the Wall

Since the necessary clamps, screws, and string are not supplied, 1. Drive the screws into the clamps and firmly fasten them onto the wall.

Make sure the screws are firmly fixed into the wall.

2. Remove the screws from the back center of the TV, put the screws into the clamps, and then fasten the screws onto the TV again.

3. Connect the clamps fixed onto the TV and the clamps fixed onto the

wall with a strong cable and then tie the string tightly 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.

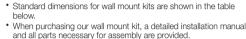
The wall mount kit (sold separately) allows you to mount the TV on the It is safe to connect the string so that the clamps fixed on the wall are equal to or lower than the clamps fixed on the TV. Untie the For detailed information on installing the wall mount, see the instructions string before moving the TV provided with the wall mount items. Contact a technician for assistance when installing the wall mount bracket. Samsung Electronics is not

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

beside the "R" icon.

Assembling the Cable Manager



Install your wall mount on a solid wall perpendicular to the floor. When attaching to other building materials, please contact your nearest dealers.

If you install the TV on a ceiling or slanted wall, it may fall and result in

responsible for any damage to the product or injury to yourself or others

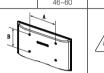
This mode provides optimised condition for watching sports games.

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

- 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 crews that are too long may cause damage to the inside of the
- · 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.

 Do not mount the TV at more than a 15 degree till

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	Quantit
LED-TV	19~22	75 X 75	M4	
	26-28	100 X 100	IVI4	,
	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.

Solution Please find a "\(\overline{\overl

The position and color may differ depending on the model.

for 28" models



Caution of the cover-jack

for 4 series



The rear panel may differ depending on the mo

50°F to 104°F (10°C to 40°C) Operating Temperature Operating Humidity Storage Temperature 10% to 80%, non-condens -4°F to 113°F (-20°C to 45°C) 5% to 95%, non-o UN19F4000 UN22F5000 UN28F4000 Model Name Display Resolution 1366 x 768 1920 x 1080 1366 x 768 Screen Size 22" Class 28" Class (Diagonal) (18,5" measured diagonally (21,5" measured diagonal (27,5" measured diagonally) 5W x 2 Output Dimensions (W x H x D) 25,3 X 15,3 X 1,9 inches (645,0 X 389,4 X 49,5 (mm)) 17,8 X 11,2 X 1,9 inches (453,7 X 285,8 X 49,5 (mm)) 20,2 X 12,6 X 1,7 inche (513,1 X 321,5 X 43,8 (mm)) 17.8 X 12.3 X 4.9 inches 20,2 X 14,4 X 6,6 inches 25.3 X 18.0 X 7.5 inches With stand (453,7 X 314,2 X 124,9 (mr (513,1 X 366,5 X 169,6 (m (645,0 X 457,7 X 191,7 (mm)) 9,2 lbs (4,2 kg) Without Stand 6,3 lbs (2,9 kg 10,3 lbs (4,7 kg

This device is a Class B digital apparatus.

s 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.

TV **Signal Strength** is unavailable in the **Self Diagnosis** Test menu. This function is only available for digital channels from an Antenna / RF / Coax connection TV is tilted to the right or left side. move the stand base from the TV and reassemble it The Channel menu is greyed out 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 ightharpoonup Plug & Play ightharpoonup ENTER ightharpoonup3. Your settings are lost after 30 m every time the TV is turned off. You have intermittent loss of audio or video. Check the cable connections and reconnect them Loss of audio or video can be caused by using overly rigid or thick cables. Make sure the cables are flexible enough for long term use. If mounting the TV to the wall, we recommend using cables with 90 degree connectors. This is part of the product's design and is not a defect. You see small particles when you look closely 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

Storage and Maintenance



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



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dampened with in a small amount of water. Do not use a flammable liquid (e.g. benzene,

Clean the product with a soft cloth

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No Picture, No Video

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.

bes not turn the TV on or off, or adjust

A "Mode Not Supported" message

Caption on the TV menu is greyed out.

There is a plastic smell from the TV.

The picture will not display in full screen

The remote control does not work.

Others

If you use a USB extension cable, the TV may not recognize the

Other Restrictions

• Video content will not play, or not play correctly, if there is an error in the content or the container.

frame rate above the compatible Frame/sec listed in the table above. • If the Index Table is in error, the Seek (Jump) function is not supported. 2. Press the TOOLS button, and then select Play Folder.

Video Decoder	Audio Decoder
 Video content can not be played, if the 	re are many contents in one file.
10Mbps.	

deo Decoder	Audio Decoder	vrien playing a lile	
	1 10000	Category	Г
upports up to H.264, Level 4.1. 2.64 FMO / ASO / RS, VC1 SP / MP / P L4 and AVCHD are not supported. PEG4 SP, ASP: Below 1280 x 720: 60 frame max Above 1280 x 720: 30 frame max 2.63 is not supported. MC is not support.	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.	Title	,
		Repeat Mode	,
		Picture Size	1
		Picture Mode	Γ,
		Sound Mode	,
usic Press the ◀/▶ buttons to select Music, then press the ENTER ◄ button in the Media Play menu.		Subtitle Settings	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

2. Press the </bd>
✓/►/▲/▼ buttons to select the desired Music in the file

During music playback, you can search using the ◄/► buttons. (REW) and F (FF) buttons do not function during play.

- 1. Press the ◀/▶ buttons to select Photos, then press the ENTER ☑ button in the Media Play menu. 2. Press the </bd>
 ✓/▲/▼ buttons to select the desired photo in the file
- 3. Press the ENTER → button or ► (Play) button. NOTE

dark pixels on the screen. These pixels will have no impact on the performance of the product. Some functions and pictures shown in this manual are available on specific models only. Support Su

🖎 If you attached some stickers on the TV screen, it remains some debris after removing the sticker. Please clean it to watch 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.



DivX Certified® to play DivX® video up to HD 1080p,

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Specifications

5,7 lbs (2,6 kg

Design and specifications are subject to change without prior notice.