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** Television Format Viewing

See the warranty card for more information on warranty

Wide screen format LED Displays (16:9, the aspect ratio of the screen width to height) are primarily designed to view wide screen. format full-motion video. The images displayed on them should rimarily be in the wide screen 16:9 ratio format, or expanded to fill the screen if your model offers this feature and the images are constantly moving. Displaying stationary graphics and images on 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, lewing other stationary images and text such as stock market reports, video game displays, station logos, web sites or computer graphics and patterns, should be limited as described above for 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 STATEMENT

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

SAMSUNG Authorized Service Center. Along with this Statement, the Original Limited Warranty Statement and a dated Bill of Sale as Proof of Purchase must be presented to the Service Center.

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

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

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

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

■ 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

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

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

3. Select **Time Viewing** in the Tools menu, and then press the

ENTER → button. The Time Viewing screen appears.

Antenna Channel Repeat

Date Start Time

◆ Move ♦ Adjust 🗗 Enter 🤊 Retur

DTV Air 6-1 Once

buttons and the Yellow Select button on your remot

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



press the ENTER button.

function to use Time Viewing.

To schedule a channel, follow these steps:

appears.

© 2015 Samsung Electronics Co., Ltd. All rights reserved.

The On Screen Menus

Your TV has two kinds of menus, the Main menu and the various Tools menus. The Main menu gives you access to most or all of the menu options available on your TV. The Tools menus display a selected number of frequently used menu options that change depending on the screen you are viewing.

 Picture Input

The Main menu has seven primary categories

 Application Sound Channel Support

Setup

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

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

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

## Picture Menu

### Mode Tools, □

Select your preferred picture mode.

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

# Backlight / Contrast / Brightness / Sharpness /

- Backlight: Adjusts the brightness of the screen by adjusting the brightness of the individual pixels.
- Contrast: Increases or decreases the contrast between dark and light areas of the picture.
- Brightness: Adjusts the brightness of the screen. Not as effective as Backlight.
- Sharpness: Sharpens or dulls the edges of objects.
- Color: Adjusts the color saturation. The higher the Color setting, the more intense the color. Low settings remove color and the picture becomes black, white and gray. ■ Tint (G/R): Adjusts the amount of green and red in the picture.
- As you increase the amount of green, the amount of red decreases and vice versa.
- When the TV is connected to a PC, you can only make changes to Backlight, Contrast, Brightness, and

□ Other Channel Menu Functions

Channel Mode (Added Channels/Favorite

Lets you select the channel list displayed when you press the

**↑CH** (Channel) button on your remote. For example, if you

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

operation. If the signal is weak or distorted, fine tune the channel

Fine tuned channels that have been saved are marked with

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

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

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

Choose between English, Español, and Français.

The time you set will appear when you press the INFO

■ Clock: Set the clock so you can use the various timer features

as this is done automatically during the search and store

Select the channel, and then select Fine Tune.

then select Reset on the Fine Tune screen

instructions, see your Quick Start Guide.

select Favorite Channels, you will only see Favorite channels when

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

- Size: Set the size and aspect ratio of the picture on the screen Your cable box or satellite receiver may have its own set of
- creen sizes as well. However, we highly recommend you use the TVs 16:9 mode most of the time
- **16:9**: Sets the picture to the 16:9 wide screen format. Zoom1: Provides moderate magnification of the picture. Sides,
- top, and bottom are cut off. Zoom2: Provides larger magnification of the picture. Sides, top, d bottom are cut off.
- Wide Fit: Enlarges the aspect ratio of the picture so the picture
- Do not watch your TV in the 4:3 format for a long time. Traces of borders displayed on the left, right and center of the screen may cause image retention (screen burn) which s not covered by the warranty.
- Screen Fit: Displays the full image without any cut-off when your TV is inputting HDMI (720p / 1080i / 1080p) or Component (1080i / 1080p) HD signals. Custom: Magnifies or shrinks 16:9 pictures vertically and/or
- norizontally. A magnified or shrunk picture can be moved left, right, up, and down
- You can adjust and store settings for each external device you have connected to an input on the TV. Picture Sizes available

by Input Source are listed below:

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

- broadcast signal received by your TV is weak, you can activate the Digital Clean View feature to reduce any static and ghosting that may appear on the screen.
- When the signal is weak, try all the Digital Clean View options until the TV displays the best picture.
- HDMI Black Level (Normal / Low) : For HDMI signals, select
- Available only in **HDMI** mode (RGB signals). ■ Film Mode (Off / Auto) : Sets the TV to automatically sense and process film signals from all sources and adjusts the picture for
- 1080i) and HDMI (480i / 1080i).
- Motion Lighting (Off / On): Reduce power consumption by brightness control adapted motion. Available in Standard mode only.

## **Picture Reset**

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

# Sound Menu

## Mode TOOLS ء

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

# Equalizer

- Available in Standard sound mode only. ■ Balance L/R: Adjusts the balance between the right and left
- 100Hz / 300Hz / 1KHz / 3KHz / 10KHz (Bandwidth Adjustment): Adjusts the loudness of specific bandwidth
- Reset: Resets the equalizer to its default settings.

## DTS TruSurround

Available in Standard sound mode only.

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

## Preferred Language

Digital channels only.

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

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

## Multi-Track Sound (MTS)

- Analog channels only ■ Mono: Select for channels that are broadcasting in mono or if
- you are having difficulty receiving a stereo signal. ■ Stereo: Select for channels that are broadcasting in stereo ■ SAP: Select to listen to the Separate Audio Program, which is usually a foreign-language translation.
- Depending on the program being broadcast, you can listen to Mono, Stereo or SAP.

### **Auto Volume**

Automatically adjusts the volume level when you change video sources or content so the level remains the same.

## **SPDIF Output**

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.

- Audio Format (PCM/Dolby Digital): 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

### ■ Audio Delay: Lets you correct timing mismatches between the audio track and the video when you are watching the TV and istening 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

A sound echo may occur due to a difference in decoding speed between the main speaker and the audio receiver. In this case, set the TV to External Speaker

- 3. On the Cable Type screen, use the </ri> When Speaker Select is set to External Speaker, the the type of digital and analog cable systems you have: STD, HRC, volume and MUTE buttons will not operate and the sound or IRC. Most systems are STD (Standard). When done, select settings will be limited. Start, and then press ENTER . The TV will start memorizing
- When Speaker Select is set to External Speaker.
- TV Speaker: Off, External Speaker: On
- When Speaker Select is set to TV Speaker. TV Speaker: On, External Speaker: On

## If there is no video signal, both speakers will be mute TV Installation Type

Specify the TV's installation type. Choose between Wall Mount and Stand to optimise the TV's sound automatically.

## Visual Impaired Digital channels only

Adds verbal description to the main audio to help the visually

## **Dolby Digital Comp**

Set Dolby Digital compression mode.

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

# ☐ Memorizing Channels

Channel Menu

When you first set up your TV using Plug & Play, the TV memorized the channels that were available over the air or through your cable system and added them to the **Channel List**. The Antenna and Auto program functions described below let you re-run the channel memorization function without having to re-run the Plug & Play procedure.

## Antenna (Air / Cable)

Before your television can memorize the available channels, you must select your TV's signal source. Air (using an antenna) or Cable. Select MENU >Channel > Antenna > Air or Cable. After you have selected the signal source, go on to the Auto Program

Selecting the signal source using the Antenna function also. determines the signal source the TV is tuned to. For example, if you receive your TV signal over the air, and you select Cable, you will see only snow. You must select Air to see a

## Auto Program

The Auto Program function memorizes all channels that are available over the air or through your cable system and adds them to the Channel List. To start **Auto Program**, follow these steps:

- 1. Push MENU I → Channel → Auto Program → ENTER on your remote. The Antenna Source screen appears
- 2. On the Antenna Source screen, select the source of your TV signal.

# **Boot Logo**

Enable/disable displaying the logo while the TV starts up.

If your TV is connected to an antenna choose Air, and then press

ENTER . The TV will automatically start memorizing channels.

If your TV is connected to a cable outlet, choose Cable, and then

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

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

© Channel memorization can take up to 45 minutes, depending

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

Memorized channels are added to the Added Channels

This function filters out scrambled channels after Auto Program is

Press the ENTER button to stop the Clear Scrambled

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

the ▲ / ▼ buttons, and then pressing the ENTER → button.

■ Zoom ■ Select 🗊 Tools

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

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

those you deleted from the Added Channels list.

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

All Channels: Shows all currently available channels including

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

channels that appear when you press the CH LIST button.

you've scheduled for viewing. Add or delete Favorite channels, add or delete channels from the Added Channels list, schedule channels

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

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

This function is only available in Cable mode.

press ENTER . Go to Step 3.

on your cable system.

**Clear Scrambled Channel** 

■ Managing Channels

♥ TV #9

♥ TV #10

Channel buttons on your remote.

channels.

Channel.

**Channel List** 

# **Eco Solution**

- Energy Saving (Off / Low / Medium / High / Picture Off) 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 button to turn on the screen.
- No Signal Power Off (Off / 15 min. / 30 min. / 60 min.): Sets how quickly the TV switches to standby mode, if no picture is
- Auto Power Off (Off / On): The TV will be automatically turned off when no user operation is received for 4 hours.

# **Auto Protection Time**

hours): If the screen remains idle with a still image for a certain period of time you define, the screen saver is activated to preven the formation of ghost images on the screen

# Support Menu

- appears in the test picture, select Yes and follow the directions on the screen.
- Sound Test: Use the built-in melody sound to check for sound problems. If the problem occurs during the test, select Yes and
- Signal Strength: (Digital channels only) An HD channel's eception quality is either perfect or the channels are unavailable. Adjust your antenna to increase signal strength.
- Reset: Reset all settings to the factory defaults The PIN input screen appears before the setup screen.

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

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

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

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

■ **⑤** Programmed: Shows all channels and programs currently

Remote control buttons active on the Channel List screen

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

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

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

Meaning

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

nenus may differ depending on the situation.

Display Icons Used in the Channel List Screens

△ A program currently being broadcast

☐ The Channel List Tools Menu TOOLS ☐

The Channel List Tools menu contains most of the functions you

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

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

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

function to the channels you selected.

✓ A selected channel.

A Favorite channel.

A reserved program.

scheduled using Timer Viewing.

Icons

press the TOOLS button

Added Channels list.

appears.

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

# in the All Channels, Added Channels, or Favorite screen, pressing To add channels to the Added Channels list, follow these steps:

- 1. Select one or more channels in the All Channels list using the ▲/▼ buttons and the Yellow Select button on your remote. 2. Press the TOOLS button on your remote. The Tools menu
- 3. Select Add in the Tools menu, and then press the ENTER -
- All deleted channels will be shown on the All Channels list. You add channels back to the Added Channels list on the
- A gray-colored channel indicates the channel has been deleted from the Added Channels list.
- The Add menu option only appears for deleted channels ■ Add to Favorite/Delete from Favorite: Lets you add channels to
- and delete channels from your Favorites list To add channels to the Favorites list, follow these steps:
- 1. Select one or more channels in the All Channels list using the ▲/▼ buttons and the Yellow Select button on your remote.
- 2. Press the TOOLS button on your remote. The Tools menu appears.
- 3. Select Add to Favorite in the Tools menu, and then press the ENTER → button.

# **Media Play**



## ☐ Connecting a USB Device

2. Connect a USB device containing photo, music, or movie files to

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

## ☐ Using the Media Play Menu



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

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

3. Press the ◀ or ▶ button to select an icon (Videos, Music,

Photos, Settings), and then press the ENTER button.

Need-to-Know List before using Media Play (USB) The file system supports FAT16, FAT32 and NTFS.

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

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

• A USB device that requires high power (more than 0.5A) may not

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

• If a file is corrupted or the TV does not support the file type, the "Not Supported File Format" message appears.

and management of digital content in an integrated and

# **Picture Options** changes to the Color Tone, Size and HDMI Black Level

■ Color Tone (Cool / Standard / Warm): Cool makes the picture bluer (cooler). Warm make the picture redder (warmer)

The menu is deactivated, when the H. 264 (1080p) DTV is

being played.

4:3: Sets the nicture to the old. 4:3 format and puts black or gray borders on the right and left of the picture.

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

■ Digital Clean View (Off / Low / Medium / High / Auto) : If the

the black level to adjust the screen depth. Low make blacks look

optimum quality. Available in ATV\_DTV (interlace). AV. COMPONENT (480i /

□ Other Features **Program Rating Lock** The **Program Rating Lock** feature lets you block programs you've determined are inappropriate for your children based on the program's ratings. To access the **Program Rating Lock** feature and make any changes, you must enter a PIN (personal

enter the same PIN. Program Rating Lock is not available in HDMI or

■ TV Parental Guidelines: You can block TV programs based children are watching.

ratings. The Motion Picture Association of America (MPAA) has mplemented a rating system that provides parents or guardians with advanced information on which films are appropriate for

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

### ■ Downloadable U.S. Rating: Parental restriction information can be used while watching DTV channels.

Locking/Blocking Programs or Movies You lock or block programs and/or movies in essentially the same

When you click a low rating, all the ratings above it will also display locks. You can also Allow All or Lock All. When done, press the RETURN button on your remote.

has memorized your new PIN.

Game Mode (On/Off) When you connect a game console such as a PlayStation™ or Xbox™ to your TV, you can enjoy a more realistic gaming experience by turning on the Game Mode function.

• Before you disconnect the game console and connect another external device, set Game Mode to Off in the setup men • If you display the TV menu in Game Mode, the screen shakes

Same Mode is not available when the input source is set to After connecting the game console, set Game Mode to On.

You may notice slightly reduced picture quality.

captions are not available, they will not be displayed on the The Caption feature does not work in Component or

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.)

Service1~6 may not be available in digital caption mode

■ Digital Caption Options: (Digital channels only)

Size: Options include Default, Small, Standard and Large. The default is Standard. Font Style: Options include Default and Styles 0 to 7. The

Background Color: Options include Default, White, Black, Red, Green, Blue, Yellow, Magenta and Cyan. You can change the background color of the captions. The default is Black. Foreground Opacity: This adjusts the opacity of text. Options include Default, Transparent, Translucent, Solid and Flashing. Background Opacity: This adjusts the opacity of the caption background. Options include Default. Transparent. Translucent, Solid and Flashing. Return to Default: This option sets each Size, Font Style,

being received.

# Disabled when the PC is in power saving mode

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

# Self Diagnosis

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

# Software Upgrade

**HD Connection Guide** Refer to this information when connecting external devices to the

# **Contact Samsung**

regarding our call centers and how to download products and

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

1. Turn on your TV.

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



1. Press the MENU button. Then, press the ▲ or ▼ button to

 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

port. USB HDD is not supported. Before connecting your device to the TV, please back up your

display on the screen.

• 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,

[T24E310-ZA]BN68-06997D-X0ENG.indb 1

channels are selected.

number keypad on your remote. 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

and time you selected.

4. Use the **◄/▶** buttons to move from entry field to entry field

and the ▲/▼ buttons to change the entries. Where numbers

are displayed, you can also enter numbers directly using the

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

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

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

date. For **Everyweek**, the TV will turn on every week.

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

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

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

view the digital program list. If you highlight a program in

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

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

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

■ Auto Program: See Auto Program under Memorizing Channels.

■ Deselect All: Deselect all the selected displayed channels.

You can only select Deselect All when one or more

any originally specified provisions for, in-home or on-site services, minimum or maximum repair times, exchanges or replacements. accessories, options, upgrades, or consumables. For the location of a SAMSUNG Authorized Service Center, please — In the United States: 1-800-SAMSUNG (1-800-726-7864) - In Canada: 1-800-SAMSUNG Still image warning

Avoid displaying still images (such as jpeg picture files) or still

the purchaser. Conditions covered are limited only to manufacturing

defects in material or workmanship, and only those encountered

in normal use of the product. Excluded, but not limited to, are

# in panorama or 4:3 format, stock or news scroll bars, etc.) on the

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

image elements (such as TV channel logos, TV shows or movies

 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.

• Always try to display any image in full screen mode. Use the TV's

## . Contact SAMSUNG WORLD WIDE

Avoid displaying the same TV channel for long periods.

Picture Options menu to select the optimal screen size.

ou have any questions or comments relating to Samsung products, ase contact the SAMSUNG customer care center.			
ountry	CANADA	U.S.A.	
ldress	Samsung Electronics Canada Inc. 2050 Derry Road West, Mississauga, Ontario L5N 0B9 Canada	Samsung Electronics America, Inc. 85 Challenger Road Ridgefield Park, NJ 07660	

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.

To change the information, follow these steps: 1. Select the **Programmed** List icon on the left side of the

Channel List screen, and then press the ENTER → button.

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

entry you want to change, and then press the TOOLS button. The Tools menu appears. 3. Select Change Info. and then press the ENTER → button.

and the ▲/▼ buttons to change the entries. Where numbers are displayed, you can also enter numbers directly using the number keypad on your remote

To cancel a scheduled show or channel, follow these steps: 1. Select the **Programmed** List icon on the left side of the

# entry you want to cancel, and then press the TOOLS button The Tools menu appears.

Channel List screen, and then press the ENTER button.

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

- 4. Select **OK**, and then press the **ENTER** 🗗 button. ■ Information: Display the information for a show or channel you have scheduled. You can also change the schedule Information. . Select the **Programmed** List icon on the left side of the
- Channel List screen, and then press the ENTER → button. 2 On the **Programmed** List screen, select the show or channel entry you want information for, and then press the TOOLS outton. The Tools menu appears.

change information, or select Close and press the ENTER

3 Select Information, and then press the ENTER # button

4. Select Change Info and press the ENTER button to

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

The **Time Viewing** Information screen appears.

button to close the Information screen.

in the channel list.

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

ENTER (₹ again. If you selected Auto:

digital channel. - Select  $\mbox{\bf Time Zone},$  and then press the  $\mbox{\bf ENTER}\, \mbox{\bf $ \mbox{\bf B}$}$  button. Use the ▲/▼ buttons to select your **Time Zone**, and then

the Clock Mode is set to Auto.

The TV will automatically download the correct time from a

ENTER . Select On if you want to turn the DST

### 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

Automatically shuts off the TV after a preset period of time. (30, 60, 90, 120, 150 and 180 minutes). To cancel the Sleep Timer, select Off Timer 1 / Timer 2 / Timer 3

enter the values directly. Use the ◀/▶ buttons to move from

field to field. When done with all the fields, press ENTER 4.

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

■ Volume: Set the desired loudness.

device lower than USB 2.0.

to select the folder.

he first time, the PIN input screen appears. Enter 0-0-0-0. The PIN screen will appear and you must enter a PIN.

■ Contents: To select what will be turned on when the timer setting is activated. You can set the TV to turn on a specific channel or play back contents such as photo or audio files Use the **◄/▶** buttons to move to move to the Contents 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

The maximum displayed number of files, including subfolders, in one folder of USB storage device is 2000. The media may not be playing smoothly when using the

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

or the field under **Photo**, and then press the **ENTER** 

button. The TV displays a single folder (the Root folder) and the type or name of the device. 2. Press the ENTER button. A list of folders on the device

re-appears 3. Use the ▲/▼ buttons to highlight a folder that contains music or photos, and then press the Yellow select button

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

screen closes and the **Program Rating Lock** Menu appears. Every time you access the **Program Rating Lock** functions, the PIN When the Rating Lock screen appears, select **Program Rating** Lock, and then press ENTER . Select On, and then press the

on their ratings. This function allows you to control what your ■ MPAA Rating: You can block movies based on their MPAA

# ■ Canadian English: You can block TV programs based on their

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 / L: Adult Language / D: Sexually Suggestive Dialog.

■ Change PIN: The Change PIN screen will appear. Choose any 4 digits for your PIN and enter them in **Enter New PIN** fields. Re-enter the same 4 digits in **Confirm New PIN** fields. When the Change PIN screen disappears, press the OK button. The TV

■ Caption Mode: You can select the desired caption mode. Default / CC1~CC4 / Text1~Text4: (analog channels only) The

(Digital channels only) The Digital Captions function works with

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

and Background Opacity to its default.

The Foreground and Background cannot be set to the



Media Play might not work properly with unlicensed

Do not disconnect the USB device while it is loading.

comprehensive way, including protecting the rights and interests of content providers, preventing illegal copying of contents, and managing billing and settlements.

2015-04-06 오전 9:12:16

• Frequently use all TV features designed to reduce image retention and screen burn-in. Refer to proper user manual section for Color / Tint (G/R)

please contact the SAMSUNG customer care center.				
Country	CANADA	U.S.A.		
Address	Samsung Electronics Canada Inc. 2050 Derry Road West, Mississauga, Ontario L5N 0B9 Canada	Samsung Electronics America, Inc. 85 Challenger Road Ridgefield Park, NJ 07660		
Customer Care Center	1-800-SAMSUNG (726-7864)			
	www.samsung.com/ca/ support (English)			

vww.samsung.com/ca\_fr/ support

Programmed List Screen Tools Menu TOOLS, ■ Change Info: Change the scheduling information for a show or channel you have scheduled.

The Time Viewing screen appears. 4. Use the **◄/▶** buttons to move from entry field to entry field

Press the ENTER → button when done. ■ Cancel Schedules: Cancel a show or channel you have

3. Select Cancel Schedules, and then press the ENTER button. The Cancel Schedule screen appears.

# □ Setting the Time

of the TV.

Language

Channels)

Fine Tune

manually.

Analog channels only

Setup Menu

you press the **∧CH∨** button.

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

press ENTER . Select DST (Daylight Savings Time), and then press

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 when done. ST and Time Zone function are only available when

## Available only when Clock Mode is set to Manual. Sleep Timer TOOLS

You must set the clock first. ■ On Time / Off Time: Set the hour, minute, am/pm, and Activate/Inactivate fields for the On Time and Off Time. Use the ◄/► 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.

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.

select a folder containing MP3 (Music) or JPEG (Photo) files on the USB device:

If there are no folders on your device, press the Yellow select button to select the Root folder, and then press the RETURN button. The Timer screen

■ 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, and then press the ENTER 🗗 When you finished making all your selections on the Timer screen, press either the ENTER ☐ or RETURN button. 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

dentification number). To watch a blocked program, you must also

ENTER key again. Depending on what type of programs or movies you want to block select one of the ontions on the screen and then press the ENTER button. The options are listed below:

V ratings. / **FV**: Fantasy violence / **V**: Violence / **S**: Sexual situation To lock/block movies or shows with certain ratings and/or kinds of content, click the square next to the rating and/or under the kind of content. A lock appears. To unlock/unblock, click the square again.

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)

Precautions and limitations for game mode:

(On-Screen Text Dialogue) ■ Caption: You can switch the caption function on or off. If

Default / Service1~Service6 / CC1~CC4 / Text1~Text4

default is Style 0. Foreground Color: Options include Default, White, Black, Red,

Digital Caption Options are available only when you can select Default and Service1 ~ Service6 in Caption Mode.

Foreground Color, Background Color, Foreground Opacity

The maximum supported JPEG resolution is 15360 x 8640 pixels.

· PTP devices are not supported.

thumbnail functions.

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



- 1. In the Media Play menu, press the ◀ or ▶ button to select Videos, and then press the ENTER button
- 2. Press the </bd>
  ✓/►/▲/▼ buttons to select a video in the file list. 3. Press the ENTER button or (Play) button.
- The file name is displayed on the top of the screen with the playing time.

Trouble Powering On

[T24E310-ZA]BN68-06997D-X0ENG.indb 2

- 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

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

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

## Supported Video Formats

ted video i offiliate					
Container	Video Codec	Resolution	Frame rate(fps)	Bit rate(Mbps)	Audio Codec
	Divx3.11/4.12/ 5.x/6.0	1920x1080	6~30	20Mbps	
MP4	H264	1920x1080	6~30	20Mbps	MP3 / ADPCM /
	VC-1	1920x1080	6~30	20Mbps	AAC
	MJPEG	640x480	6~30	10Mbps	
	Divx3.11/4.12/ 5.x/6.0	1920x1080	6~30	20Mbps	MP3 / AC3
"AVI MKV"	MPEG 1/2/4	1920x1080	6~30	20Mbps	/ LPCM / ADPCM /
MKV-	H264	1920x1080	6~30	20Mbps	DTS
	MJPEG	640x480	6~30	10Mbps	
	Divx 3.11/4.12/ 5.x/6.0	1920×1080	6~30	20Mbps	MP3 / AC3 / LPCM /
ASF	MPEG 1/2/4	1920x1080	6~30	20Mbps	ADPCM / WMA /
	H.264	1920x1080	6~30	20Mbps	WMA Pro
TO	MPEG2 -TS	1920x1080	6~30	20Mbps	AC3 / AAC
TS H. 264		1920x1080	6~30	20Mbps	DD+
	MPEG1	1920x1080	6-30	20Mbps	AC3 /
PS	MPEG2	1920x1080	6~30	20Mbps	MPEG / LPCM /
	H. 264	1920x1080	6~30	20Mbps	AAC

## Other Restrictions

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

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.

f you find that you are having trouble powering on your Samsung television, there are a number of things to check it

## Video Decoder

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

- MPEG4 SP, ASP
- Below 1280 x 720: 60 frame max
- Above 1280 x 720: 30 frame max H.263 is not supported.

## GMC is not support.

## Audio Decoder

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

# WMA Lossless is not supported.



- 1. In the Media Play menu, press the ◀ or ▶ button to select Music, and then press the ENTER → button.
- 2. Press the </bd>
  ✓/▲/▼ buttons to select the desired Music in the
- 3. Press the ENTER → button or ► (Play) button.
- During music playback, you can search using the ◀ and
- (REW) and (FF) buttons do not function during Media Play only displays files with MP3 and PCM file
- 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

extension. Other file extensions are not displayed, even if they

may cause a sound problem.) • Supported Music file Formats

RF (Cable/Antenna) Connection

The TV is not receiving all channels.

File Extension	Type	Codec
*.mp3	MPEG	MPEG1 Audio Layer 3
* Way	Way	Way



- In the Media Play menu, press the ◀ or ▶ button to select Photos, then press the ENTER button
- 2. Press the  $\blacktriangleleft/\blacktriangleright/\blacktriangle/\blacktriangledown$  buttons to select a photo in the file list. 3. Press the ENTER → button or ► (Play) button.
- NOTE
- While a photo list is displayed, press the ► (Play) / ENTER → button on the remote control to start a slide show.
- All files in the file list section will be displayed in the slide show.
- During the slide show, files are displayed in order
- During the slide show, you can adjust the slide show speed using (◄) (REW) or (►) (FF) button.
- Media Play can play Music files automatically during a Slide Show if **Background Music** is set to **On**.
- Nou cannot change the **Mode** in **Background Music** until the Background Music file has finished loading
- Supported Photo Formate

	Supported Prioto Formats			
	Image	Photo	Resolution	
	JPEG	Base-line	15360 x 8704	
,	JPEG	Progressive	1024 x 768	

## Other Restrictions

CMYK, YCCK Color space JPEG are not supported.

## Playing Multiple Files

- Playing selected video/music/photo files 1. On the File List screen, highlight a file, and then press the Yellow
- button on your 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 → button.
- 3. Press the TOOLS button, select Play Selected Contents, and then press the ENTER → button

### ■ Playing a video/music/photo folder

- 1. With the folders on your USB device displayed, use the ◄/►/▲/▼ buttons to highlight a folder.
- 2. Press the TOOLS button, select Play Folder, and then press the ENTER → button.

## NOTE

Videos Music Photos

## • Standard dimensions for wall mount kits are shown in the table

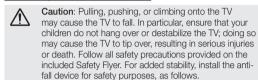
- When purchasing our wall mount kit, a detailed installation manual and all parts necessary for assembly are provided.
- Do not use screws that do not comply with the VESA standard screw specifications.
- Do not use screws that are longer than the standard dimension or do not comply with the VESA standard screw specifications
- ac not compry with the veba standard screw specifications.
   Screws that are too long may cause damage to the inside of the IV set. • For wall mounts that do not comply with the VESA standard
- screw specifications, the length of the screws may differ depending on the wall mount specifications.
- Do not fasten the screws too firmly. This may damage the
- product or cause the product to fall, leading to personal injury Samsung is not liable for these kinds of accidents.
- Samsung is not liable for product damage or personal injury when a non-VESA or non-specified wall mount is used or the
- consumer fails to follow the product installation instructions.
- Do not mount the TV at more than a 15 degree tilt.
- Always have two people mount the TV on a wall. Product VESA screw hole specs Standard Quantity

Family	iviodeis	(A *	B) in millimeters	Screw	Quantity
LED-TV	LT24E310ND		75 X 75	M4	4
			Do not install vo	ur 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



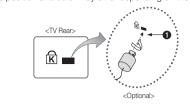
## To prevent the TV from falling

- Since the necessary brackets, screws, and string or cable are
- not supplied, please purchase these separately
- 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.
- then fasten the screws to the top VESA screw holes on the back of the TV. 2. Using screws, insert the screws through the TV brackets, and
- 3. Connect the brackets on the TV and the brackets on the wall with a strong string or cable, and then tie the string or cable tightly to the brackets.
- Verify all connections are properly secured. Periodically check the connections for any sign of fatigue or failure. If you have any doubt about the security of your connections, contact a professional installer.
- Install the TV close to the wall so that it does not fall. Connect the string or cable so that the brackets on the wal are at the same height or lower than the brackets on the TV. Untie the string or cable before moving the TV.
- To purchase a TV Holder kit, contact Samsung customer

## **Kensington Lock**

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

- information on proper use. Nease find a "R" icon on the rear of the TV. The Kensington
- slot is beside the "\mathbb{\mathbb{H}}" icon. The position and color may differ depending on the model.



## To lock the product, follow these steps:

- 1. Wrap the Kensington lock cable around a large, stationary object such as desk or chair.
- 2. Slide the end of the cable with the lock attached through the
- looped end of the Kensington lock cable. 3. Insert the locking device into the Kensington slot on the product  $m{0}$ .
- 4. Lock the lock.
- These are general instructions. For exact instructions, see the
- User manual supplied with the locking device. The locking device has to be purchased separately
- The location of the Kensington slot may be different depending

# on the TV model.

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

Problem	Possible Solution
Flickering and Dimming	If your Samsung Television is flickering or dimming sporadically, you may need to disable some of its energy efficient features like the Energy Saving feature. Follow the steps below with your remote to turn these features off or on.  • Energy saving: MENU → Setup → Eco Solution → Energy Saving → Select Settings
Component Connections / Screen Color	If you find that the color on your Samsung television's screen is not correct or black and white, first run a Self Diagnosis Test on the TV to make sure there are no device issues.
	$\bullet \   Self Diagnosis : MENU \to Support \to Self Diagnosis \to Picture Test$
	If the test is ok, try making sure;
	Your connections are all consistent. For example, if you've used the AV In jack on your TV, make sure you have used the AV Out jack on your video source.
	<ul> <li>Try making sure you have connected to the correct jacks. For example, if you use the Component jacks, labeled Pb, Pr, and Y, to connect your TV and video source, make sure you have connected the blue Pb jack on the video source to the blue Pb jack on the TV, the red Pr jack on the source to the red Pr jack on the TV.</li> </ul>
Screen Brightness	If you find that the colors on your Samsung TV are correct but just a little too dark or bright, there are some settings you should check before calling for a repair.
	<ul> <li>Backlight, Contrast, Brightness, Sharpness, Color, Tint (G/R) and so on. Go to "Picture" in the Menu, and then try adjusting these options.</li> </ul>
Unwanted Powering off	If your Samsung TV appears to turn off by itself, there may be an issue with either your Timer settings or your Eco friendly No Signal Power Off feature.
	First make sure the <b>Sleep Timer</b> is not accidentally set. The <b>Sleep Timer</b> lets you fall asleep with the TV still on knowing that it will turn off after a certain period of time and not waste energy.
	• Sleep Timer : MENU $\rightarrow$ Setup $\rightarrow$ Time $\rightarrow$ Sleep Timer
	If the Sleep Timer is not activated, you may have engaged the No Signal Power Off or Auto Power Off feature.
	<ul> <li>No Signal Power Off : MENU → Setup → Eco Solution → No Signal Power</li> </ul>
	Auto Power Off : MENU → Setup → Eco Solution → Auto Power Off
Stand Installation	If you have any trouble in assembling the stand, refer to "Install the Stand" in the Wall Mount & Stand Quick setup guide.

## **Storage and Maintenance**

Media Play - Additional Functions

■ Videos/Music/Photos Play Option menus

When playing a file, press the TOOLS button.

Repeat Mode You can play movie and music

Picture Size

Audio Format

Start Slide Show

Zoom

Rotate

the wall.

You can select another video file to play directly.

ou can adjust the picture size to

You can play the video with Subtitles. This function only works if the subtitles have the same file name as the video.

You can select the digital audio

uage if the video has mor

ou can start or stop a Slide

You can zoom into images in full

You can rotate images in full

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

For detailed information about installing the wall mount, see the instructions provided with the wall mount items. Contact a technician for assistance when installing the wall mount bracket

The wall mount kit is not supplied, but sold separately

Install your wall mount on a solid wall perpendicular to the floor.

When attaching to other building materials, please contact your nearest dealer. If you install the TV on a ceiling or slanted wall, it

Samsung Electronics is not responsible for any damage to the

product or injury to yourself or others if you elect to install the wall mount on your own.

Other Information

Installing the Wall Mount Kit

Wall Mount Kit Specifications (VESA)

may fall and result in severe personal injury.

ou can set and select

You can change the audio

Sound Mode You can adjust the sound setting.

Picture Mode You can adjust the picture setting.

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



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



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

# License



Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby



For DTS patents, see http://patents.dts.com. Manufactured under license from DTS Licensing Limited. DTS, the Symbol, & DTS and the Symbol together are registered trademarks, and DTS 2.0 Channel is a trademark of DTS, Inc. © DTS, Inc. All Rights Reserved. Manufactured under a license from U.S. Patent No's: 6,285,767, 8,027,477, 5,319,713, 5,333,201,



5,638,452, 5,771,295, 5,970,152, 5,912,976, 7,200,236, 7,492,907, 8,050,434, 7,720,240, 7,031,474, 7,907,736 and 7,764,802. DTS, the Symbol, and DTS and the Symbol together are registered trademarks & DTS Studio Sound is a trademark of DTS, Inc. ©2012 DTS, Inc. All Rights Reserved.

The terms HDMI and HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or

# The terms HDMI and HDMI High-Delinition Mutatheolia interest and other countries. registered trademarks of HDMI Licensing LLC in the United States and other countries. Open Source License Notice

Open Source used in this product can be found on the following webpage. (http://opensource.samsung.com) Open Source License

o send inquiries and requests for questions regarding open sources, contact Samsung via Email (oss.request@samsung.com). ■ This product uses some software programs which are distributed under the Independent JPEG Group.

ICU License - ICU 1.8.1 and later

COPYRIGHT AND PERMISSION NOTICE

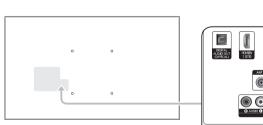
Copyright (c) 1995-2008 International Business Machines Corporation and others All rights reserved.

mission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Softwa without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, provided that the above copyright notice(s) and this permission notice appear in all copies of the Software and that both the above copyright notice(s) and this permission notice appear in supporting documentation.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE,

Except as contained in this notice, the name of a copyright holder shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization of the copyright holder. All trademarks and registered trademarks mentioned herein are the property of their respective owners.

With stand

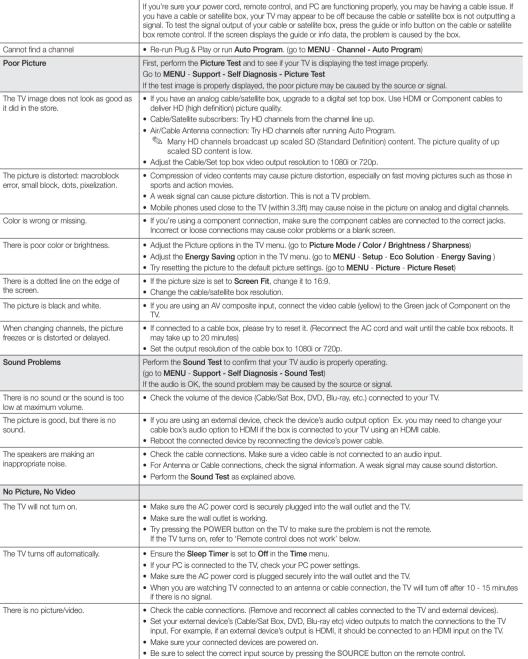


NOTE: All drawings are not necessarily to scale. Some dimensions are subject to change without prior notice. Refer to the dimensions

prior to performing installation of your TV. Not responsible for typographical or printed errors. © 2015 Samsung Electronics America, Inc.

it did in the store. deliver HD (high definition) picture quality. Cable/Satellite subscribers: Try HD channels from the channel line up. Air/Cable Antenna connection: Try HD channels after running Auto Program. Many HD channels broadcast up scaled SD (Standard Definition) content. The picture quality of up scaled SD content is low. Adjust the Cable/Set top box video output resolution to 1080i or 720p. The picture is distorted: macroblock • Compression of video contents may cause picture distortion, especially on fast moving pictures such as those in sports and action movies. A weak signal can cause picture distortion. This is not a TV problem. • Mobile phones used close to the TV (within 3.3ft) may cause noise in the picture on analog and digital channels. If you're using a component connection, make sure the component cables are connected to the correct jacks. Incorrect or loose connections may cause color problems or a blank screen. Color is wrong or missing. • Adjust the Picture options in the TV menu. (go to Picture Mode / Color / Brightness / Sharpness There is poor color or brightnes Adjust the Energy Saving option in the TV menu. (go to MENU - Setup - Eco Solution - Energy Saving) Try resetting the picture to the default picture settings. (go to MENU - Picture - Picture Reset) • If the picture size is set to Screen Fit, change it to 16:9. There is a dotted line on the edge of · Change the cable/satellite box resolution. • If you are using an AV composite input, connect the video cable (yellow) to the Green jack of Component on the When changing channels, the picture • If connected to a cable box, please try to reset it. (Reconnect the AC cord and wait until the cable box reboots, It freezes or is distorted or delayed. may take up to 20 minutes) Set the output resolution of the cable box to 1080i or 720p. Perform the Sound Test to confirm that your TV audio is properly operating. Sound Problems (go to MENU - Support - Self Diagnosis - Sound Test) If the audio is OK, the sound problem may be caused by the source or signal. There is no sound or the sound is too • Check the volume of the device (Cable/Sat Box, DVD, Blu-ray, etc.) connected to your TV. low at maximum volume. The picture is good, but there is no If you are using an external device, check the device's audio output option. Ex. you may need to change your cable box's audio option to HDMI if the box is connected to your TV using an HDMI cable. • Reboot the connected device by reconnecting the device's power cable. The speakers are making ar • Check the cable connections. Make sure a video cable is not connected to an audio input. inappropriate noise • For Antenna or Cable connections, check the signal information. A weak signal may cause sound distortion. Perform the Sound Test as explained above. No Picture, No Video The TV will not turn or Make sure the AC power cord is securely plugged into the wall outlet and the TV.

before making a call to the service department.



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

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) • Check the Caption Setup menu. Try changing Caption Mode Service 1 to CC1. No Caption on digital channels. Some channels may not have caption data The picture is distorted: macroblock error, small block, dots, pixelization. Compression of video contents may cause picture distortion, especially on fast moving pictures such as those in sports and action movies. A weak signal can cause picture distortion. This is not a TV proble Purple/green rolling horizontal bars and • Remove the left and right audio connections from the set-top-box. If the buzzing stops, this indicates that the setbuzzing noise from the TV speakers wit top-box has a grounding issue. Replace the Component video cables with an HDMI connec The picture will not display in full screen. • HD channels will have black bars on either side of the screen when displaying up scaled SD (4:3) contents. Black bars on the top and bottom appear when movies that have aspect ratios different from your TV play on the · Adjust the picture size option on your external device or change the TV to full screen The remote control does not work. • Replace the remote control's batteries. Make sure you insert them with the polarity (+/-) correct • Clean the transmission window located on the top of the remote control. • Try pointing the remote directly at the TV from 5~6 feet away. The cable/set top box remote control does not turn the TV on or off, or adjust • 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. the volume. A "Mode Not Supported" message • Check the supported resolution of the TV and adjust the external device's output resolution accordingly. Refer to resolution settings in this manual. You cannot select **Caption** in the TV menu when watching content from a device connected via HDMI or Caption on the TV menu is greved out. Caption must be activated on the external device This smell is normal and will dissipate in a few days. There is a plastic smell from the TV. TV Signal Strength is unavailable in the Self Diagnosis Test menu. • This function is only available for digital channels received through an Antenna / RF/Coax connection TV is tilted to the right or left side. · Remove the stand base from the TV and reassemble it The Channel menu is only available when you select the TV source. The **Channel** menu is grey out (unavailable). If TV is in the Store Demo mode, it will reset audio and picture settings every 5 minutes. Please change from Your settings are lost after 5 minutes or Store Demo mode to Home Use mode using the Plug & Play procedure. Press the SOURCE button to select TV mode, go to MENU  $\rightarrow$  Setup  $\rightarrow$  Plug & Play  $\rightarrow$  ENTER  $\square$ . every time the TV is turned off. You have intermittent loss of audio or • 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 You see small particles when you look . This is part of the product's design and is not a defect closely at the edge of the frame of the TV

Make sure the coaxial cable is connected securely

• Run Auto Program to add available channels to the channel lis

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.

POP (TV's internal banner ad) appears

• Select Home Use under Plug & Play mode. For details, refer to Plug & Play (Initial Setup)

Watch these troubleshooting on video at www.samsung.com/spsn. Some functions and pictures shown in this manual are available on specific models only.

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

→ Support → Downloads). To upgrade, download the firmware to your computer, copy the firmware file to a USB memory stick, insert the USB memory stick into the TV's USB slot, and then select Support > Software Upgrade in the TV's menu.

Display Modes (HDMI/DVI Input)

640 x 480

640 x 480

800 x 600

800 x 600

1024 x 768

720 x 400 31.469 70.087 28.322

35.000 66.667 30.240

49.726 74.551 57.284

31,469 59,940 25,175

37.861 72.809 31.500

37.500 75.000 31.500

37.879 60.317 40.000

48.077 72.188 50.000

46.875 75.000 49.500

48.363 60.004 65.000

56.476 70.069 75.000

60.023 75.029 78.750

1280 x 720 45.000 60.000 74.250

1366 x 768 47.712 59.790 85.500

22.1 x 14.8 x 4.9 inches

7.74 lbs (3.51 kg)

8.44 lbs (3.83 kg)

50°F to 104°F (10°C to 40°C) Operating Temperature 10% to 80%, non-condensing -4°F to 113°F (-20°C to 45°C) Storage Temperature 5% to 95% non-condensi LT24E310ND Model Name 1366 x 768 Display Resolution Screen Size 24" Class

(Diagonal) 5 W x 2 Dimensions (W x H x D) 22.1 x 13.4 x 2.1 inches

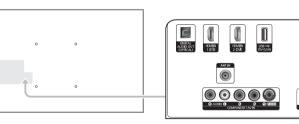
Without Stand With Stand

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

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

JACK PANEL DETAIL / REAR VIEW

**Specifications** 



2015-04-06 오전 9:12:17