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 terms 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 primarily 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, viewing 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. out 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. Transportation to and from the Service Center is the responsibility of the purchaser.



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

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 Setup > Time

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

buttons and the Yellow (Select) button on your remote

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

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

ENTER button. The Time Viewing screen appears.

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

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

re displayed, you can also enter numbers directly using the

If you select Everyday or Every Week, the date you

select in the Date field becomes the start date for your

very 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

scheduled viewing. For Everyday, the TV will turn on

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

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

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

Scheduled programs and channels are displayed in the

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

you set Timer Viewing for that program directly.

Deselect All: Deselect all the selected displayed channels.

You can only select Deselect All when one or more

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

■ Auto Program: See Auto Program under Memorizing Channels.

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

Antenna Channel Repeat

Date Start Time

♦ Move ♦ Adjust ☐ Enter ⊃ Return

number keypad on your remote.

and time you selected

Programmed List.

channels are selected.

Only Added Channels can be scheduled.

DTV Air 6-1 Once

press the ENTER - button.

> Clock function to use Time Viewing.

To schedule a channel, follow these steps:

Conditions covered are limited only to manufacturing defects in material or workmanship, and only those encountered in normal use of the product. Excluded, but not limited to, are any originally specified provisions for, in-home or on-site services, minimum or naximum repair times, exchanges or replacements, accessories, options, upgrades, or consumables, For the location of a SAMSLING Authorized Service Center, please

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

#### Still image warning

--- In Canada: 1-800-SAMSUNG

Contact SAMSUNG WORLDWIDE

Avoid displaying still images (such as jpeg picture files) or still image elements (such as TV channel logos, TV shows or movies n panorama or 4:3 format, stock or news scroll bars, etc.) on the screen. The constant display of still pictures can cause ghosting or image burn-in (image retention) on the LED screen, which will affect mage quality. To reduce the risk of this effect, please follow the mendations below:

· Avoid displaying the same TV channel for long periods. Always try to display any image in full screen mode. Use the TV's

Picture Options menu to select the optimal screen size. · Reduce brightness and contrast values to the minimum required to achieve the desired picture quality. Values that exceed the

If you have any questions or comments relating to Samsung products.

sung Electronics

Service 55 Standish Court

sissauga, Ontario L5R

800-SAMSUNG(726-7864)

America, Inc.

07660-2112

85 Challenger Road

Ridgefield Park, NJ

Canada Inc., Customer

please contact the SAMSUNG customer care center.

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

## Backlight / Contrast / Brightness / Sharpness / Color / Tint (G/R)

■ Backlight: Adjusts the brightness of the screen by adjusting the brightness of the individual pixels. Contrast: Increases or decreases the contrast between dark and

light areas of the picture. ■ Brightness: Adjusts the brightness of the screen. Not as effective as Backlight

picture becomes black, white and grav.

The On Screen Menus

The Main menu has seven primary categories:

is available.

Picture

Sound

Setup

n the Source List.

Picture Menu

Select your preferred picture mode.

Entertain and Standard

Standard: Suitable for a normal normal

watching movies in a darkened room

Mode Tools 和

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. A Tools menu symbol

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

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

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

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

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

Only available when the TV is connected to a PC.

■ Entertain: Sharpens the picture. Suitable for games.

appear. To see the Channel category, you must first select T

(幻) in the lower right side of the screen indicates that a Tools menu

Input

Application

Support

■ 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

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

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

### **Advanced Settings**

ailable in **Standard** and **Movie** mode only Compared to previous models, new Samsung TVs offer a more precise picture with more precise controls

When your TV is connected to a PC, you can only make changes to Gamma and White Balance.

■ Color Space (Auto / Native): Auto automatically matches the range of colors available to create pictures to the color range of the video source. Native provides a color range wider than the

color range of the video source ■ White Balance: Adjusts the color temperature of the picture so that white objects look white (instead of, for example, slightly pink or slightly yellow) and the overall color of the picture looks

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

R-Gain / G-Gain / B-Gain: Adjusts each color's (red, green, To view the Main menu, press the MENU button on your remote. To blue) brightness. Reset: Resets the White Balance to it's default settings

■ Gamma: Adjusts the primary color intensity Dynamic Contrast (Off / Low / Medium / High): Adjusts the

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

level to adjust the screen depth. Darker settings make blacks ■ Flesh Tone: Adjusts the amount of red in skin tones.

Motion Lighting (Off / On): When on, the TV automatically adjusts the brightness of the screen in response to the orightness of the room. In bright light, the screen brightens. In dim light, the screen dims.

Available in Standard mode only.

### **Picture Options**

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

**■ Color Tone (Cool / Standard / Warm1 / Warm2):** Cool makes the picture bluer (cooler). Warm 1 and Warm 2 make the picture redder (warmer).

Warm1 and Warm2 are deactivated when the picture mode is set to Dynamic.

Size: Set the size and aspect ratio of the picture on the screen. Your cable box or satellite receiver may have its own set of screen 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, and bottom are cut off. Wide Fit: Enlarges the aspect ratio of the picture so the picture

fits the entire screen. 4:3: Sets the picture to the old, 4:3 format and puts black or gray

borders on the right and left of the picture. Do not watch your TV in the 4:3 format for a long time.

Traces of borders displayed on the left, right and center of the screen may cause image retention (screen burn) which is not covered by the warranty.

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Programmed List (on the Channel List Screen) Select one or more channels in the Favorite Channels list. The **Programmed** list displays the channels and programs you using the ▲/▼ buttons and the Yellow (Select) button on your have scheduled for viewing using the Time Viewing function. You can view, modify, or delete a show you have scheduled using the 2. Press the TOOLS button on your remote. The Tools menu functions on the Programmed List screen Tools menu

Center @

### Programmed List Screen Tools Menu Tools 7

■ Change Info: Change the scheduling information for a show or channel you have scheduled.

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

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

he Time Viewing screen appears.

4. Use the **4/>** huttons to move from entry field to entry field and the ▲/▼ buttons to change the entries. Where numbers re displayed, you can also enter numbers directly using the

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

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

To cancel a scheduled show or channel, 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 cancel, and then press the TOOLS button.

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

4. Select **OK**, and then press the **ENTER** 🗗 button.

■ Information: Display the information for a show or channel you have scheduled. You can also change the schedule Information.

Select the Programmed List icon on the left side of the Channel List screen, and then press the ENTER → button. 2. On the **Programmed** List screen, select the show or channel

entry you want information for, and then press the TOOLS button. The Tools Menu appears.

3. Select **Information**, and then press the ENTER → button.

he Time Viewing Information screen appears 4. Select Change Info and press the ENTER H button to

change information, or select Close and press the ENTER outton to close the Information screen

view the digital program list. If you highlight a program in the list, and then press the ENTER (Schedule) button, in the channel list.

### □ Other Channel Menu Functions

# **Channel Mode (Added Channels / Favorite**

ts you select the channel list displayed when you press the ∧CHV (Channel) button on your remote. For example, if you select Favorite Channels, you will only see Favorite channels when ress the ACHV button.

## Fine Tune

Analog channels only.

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

## Select the channel, and then select Fine Tune

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

To reset fine-tuning, select the channel, select Fine Tune, and then select Reset on the Fine Tune screen.

## Setup Menu

## Plug & Play

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

#### <u>Language</u> et the menu language

Choose between English, Español, and Français.

## ■ Setting the Time

The time you set will appear when you press the INFO

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

If you disconnect the power cord, you have to set the

clock again.

To set the clock, follow these steps: Select Setup >Time > Clock.

2. Press ENTER and select Auto or Manual, and then press ENTER again. If you selected Auto:

The TV will automatically download the correct time from a digital channel. • Select Time Zone, and then press the ENTER 🗗 button.

Use the ▲/▼ buttons to select your Time Zone, and then press ENTER . · Select DST (Daylight Savings Time), and then press ENTER . Select On if you want to turn the DST adjustment on and off manually. Select Off to turn off the

DŚT adjustment. Select **Auto** if you want the TV to adjust to DST automatically. Press ENTER when done. DST and Time Zone function are only available when

#### the Clock Mode is set to Auto. If you selected Manual:

60, 90, 120, 150 and 180 minutes)

The Clock Set screen appears. Use the ▲/▼ buttons to change the values in each field or use the number buttons to enter the values directly. Use the **◄/**▶ buttons to move from field to field. When done with all the fields, press ENTER .

### Sleep Timer 100197

Available only when Clock Mode is set to Manual. Automatically shuts off the TV after a preset period of time. (30,

To cancel the Sleep Timer, select Off.

## Timer 1 / Timer 2 / Timer 3

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

You must set the clock first.

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

Volume: Set the desired loudness.

Contents: To select what will be turned on when the timer setting is activated. You can set the TV to turn on a specific channel or play back contents such as photo or audio files Use the 
■/▶ buttons to move to move to the Contents field. and then press the ENTER 🗗 button. The Contents screen appears. Use the 
√> buttons to move from field to field. Use the ▲/▼ buttons to change the values in each field.

- TV/USB: Select TV or USB. The USB device must be connected to your TV before you can select USB. - Antenna: Displays the current antenna source, Air or Cable

Channel: If you have selected TV, select the desired channel.

- Music/Photo: If you have selected USB, follow these steps to select a folder containing MP3 (Music) or JPEG (Photo) files on the USB device:

The maximum displayed number of files, including sul 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. 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

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

then press the RETURN button. The Timer screen re-appears. 3. Use the ▲/▼ buttons to highlight a folder that contains

music or photos, and then press the Yellow (Select) button to select the folder. 4. Press the RETURN button. The Timer screen re-appears.

■ Repeat: Select Once, Everyday, Mon~Fri, Mon~Sat, Sat~Sun or Manual. If you select Manual, you can select the

days you want to activate the timer by using the ◄/▶ buttons to highlight the day, and then pressing the ENTER A button. o 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.

## □ Other Features

**Program Rating Lock** 

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

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

#### Mode Tools 五 Standard: Selects the normal sound mode.

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

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

Digital Noise Filter (Off / Low / Medium / High / Auto) : If the

When the signal is weak, try all the Digital Noise Filter

■ HDMI Black Level (Normal / Low): For HDMI signals, select

Film Mode (Off / Auto): Sets the TV to automatically sense and

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

■ LED Motion Plus (Off / On): Removes drag from fast scenes

■ Picture Reset (Reset Picture Mode/Cancel): Resets the

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

options until the TV displays the best picture.

Available only in **HDMI** mode (RGR signals)

with a lot of movement to provide a clear picture

1080i) and HDMI (480i / 1080i).

picture settings to their factory defaults.

oadcast signal received by your TV is weak, you can activate

1920x1080) or 720p (1280x720) resolution.

(1080i / 1080p) HD signals.

Input Source

optimum quality.

Picture Reset

Sound Menu

by Input Source are listed below:

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

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

that may appear on the screen.

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

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

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

Picture Size

16:9, Zoom1, Zoom2,

16:9. Wide Fit. 4:3.

Music: Emphasizes music over voices. Movie: Provides the best sound for movies.

■ Clear Voice: Emphasizes voices over other sounds. ■ Amplify: Increase the intensity of high-frequency sounds to allow 🚳 Selecting the signal source using the Antenna function also a better listening experience for the hearing impaired.

#### Equalizer

Available in Standard sound mode only. ■ Balance L/R: Adjusts the balance between the right and left

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

Reset: Resets the equalizer to its default settings.

## SRS TruSurround HD

How It Works

children are watching.

Anglophone Canadian ratings.

be used while watching DTV channels

Locking/Blocking Programs or Movies

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

French Canadian ratings.

RETURN button on your remote

has memorized your new PIN.

Available in Standard sound mode only.

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

set your own PIN using the Change PIN function.

When you access the Program Rating Lock Menu functions for

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

ENTER key again. Depending on what type of programs or

TV Parental Guidelines: You can block TV programs based

MPAA Rating: You can block movies based on their MPAA

movies you want to block, select one of the options on the screen

and then press the ENTER - button. The options are listed below

on their ratings. This function allows you to control what your

ratings. 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

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

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

■ Downloadable U.S. Rating: Parental restriction information can

You lock or block programs and/or movies in essentially the same

option also has kinds of content listed across the top: ALL: Lock all

TV 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

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

■ Change PIN: The Change PIN screen will appear. Choose any

4 digits for your PIN and enter them in Enter New PIN fields.

Change PIN screen disappears, press the OK button. The TV

If you forget the PIN, press the remote-control buttons in

POWER (off)  $\rightarrow$  MUTE  $\rightarrow$  8  $\rightarrow$  2  $\rightarrow$  4  $\rightarrow$  POWER (on)

Before you disconnect the game console and connect another external device, set Game Mode to Off in the setup menu.

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

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

After connecting the game console, set Game Mode to On.

You may notice slightly reduced picture quality

When you connect a game console such as a PlayStation™

or Xbox™ to your TV, you can enjoy a more realistic garning

experience by turning on the Game Mode function.

Precautions and limitations for game mode:

he following sequence, which resets the pin to "0-0-0-0"

Re-enter the same 4 digits in Confirm New PIN fields. When the

ontent. A lock appears. To unlock/unblock, click the square again.

way for each option. Each option displays a grid or table. All the

screen will appear and you must enter a PIN.

the first time, the PIN input screen appears, Enter 0-0-0-0. The PIN

screen closes and the Program Rating Lock Menu appears. Every

The default PIN number of a new TV set is "0-0-0-0". You can Caption

Preferred Language Digital channels only

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

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

### Multi-Track Sound (MTS)

Analog channels only

■ Mono: Select for channels that are broadcasting in mono or if ou 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 sually a foreign-language translation.

Depending on the program being broadcast, you can listen to Mono, Stereo or SAP. the Digital Noise Filter feature to reduce any static and ghosting

#### **Auto Volume**

Because each station has its own broadcasting conditions, the volume may fluctuate each time you change the channel. This feature automatically adjusts the volume of a channel by lowering the sound output when the modulation signal is high or by raising the sound output when the modulation signal is low

#### **Sound Reset**

process film signals from all sources and adjusts the picture for Reset All: Resets all sound settings to the factory defaults.

#### Channel Menu

### ■ Memorizing Channels

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

#### Antenna (Air / Cable) TOOLS

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

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  $\blacksquare$   $\rightarrow$  Channel  $\rightarrow$  Auto Program  $\rightarrow$  ENTER  $\blacksquare$ 

(On-Screen Text Dialogue)

HDMI mode.

digital channels.

default is Standard.

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

captions are not available, they will not be displayed on the

The Caption feature does not work in Component or

Default / CC1~CC4 / Text1~Text4: (analog channels only) The

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

TV. (Depending on the broadcasting signal, the Analog Caption

(Digital channels only) The Digital Captions function works with

Service1~6 may not be available in digital caption mode

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

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

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

Green, Blue, Yellow, Magenta and Cyan. You can change the

Green, Blue, Yellow, Magenta and Cyan. You can change the

Foreground Opacity: This adjusts the opacity of text. Option

include Default, Transparent, Translucent, Solid and Flashing

Background Opacity: This adjusts the opacity of the caption

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

background. Options include Default, Transparent, Translucent,

Foreground Color, Background Color, Foreground Opacity and

Digital Caption Options are available only when you can

The Foreground and Background cannot be set to the

. When no sound is output from the TV because the MUTE

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

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

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

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

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

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

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

• When no sound is output from the TV because the volume has

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

been reduced to minimum with the VOL - button

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

the formation of ghost images on the screen.

select Default and Service1 ~ Service6 in Caption Mode.

background color of the captions. The default is Black.

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

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

Analog Caption function operates in either analog TV channel

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

function may or may not work with digital channels."

depending on the broadcast

color of the letters. The default is White.

Background Opacity to its default.

The Melody does not play

**Auto Protection Time** 

button to turn on the screen.

**Eco Solution** 

button has been pressed

■ Digital Caption Options: (Digital channels only)

on your remote. The Antenna Source screen appears.

2. On the Antenna Source screen, select the source of your TV

memorizing channels.

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

press ENTER . Go to Step 3.

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

3. On the Cable Type screen, use the ◀/▶/▲/▼ buttons to

Channel memorization can take up to 45 minutes.

depending on your cable system

Channel buttons on your remote.

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

This function is only available in Cable mode.

Press the ENTER 🗗 button to stop the Clear Scrambled

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

you've scheduled for viewing. Add or delete Favorite channels, add

or delete channels from the Added Channels list, schedule channels

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

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

annels that appear when you press the CH button.

Programmed: Shows all channels and programs currently

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

Clear Scrambled Channel

Managing Channels

▼TV#10

con using the <u>▲/▼</u> buttons to view each list.

Favorite: Shows all favorite channels.

scheduled using Timer Viewing.

ose you deleted from the Added Channels list.

Zoom ■ Select 

Tools

Channel.

Channel List

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

select the type of digital and analog cable systems you have: STD, HRC, or IRC. Most systems are STD (Standard). When

Memorized channels are added to the Added Channels

done, select Start, and then press ENTER . The TV will start

a function to the channels you selected. • 🖅 (Tools): Displays the Channel List Tools menu. (The Tools us may differ depending on the situation.)

## Display Icons Used in the Channel List Screens

Remote control buttons active on the Channel List screen.

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

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

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

Display Icons Osed in the Chainlei List Scieens			
Icons	Meaning		
✓	A selected channel.		
•	A Favorite channel.		
<b>O</b>	A reserved program.		
	A program currently being broadcast.		

## ☐ The Channel List Tools Menu TOOLS ☐

list. These are the channels you will see when you use the The Channel List Tools menu contains most of the functions you can use on the All Channel. Added Channels, and Favorite List screens. To view, select a list screen, select a channel, and then This function filters out scrambled channels after Auto Program is press the TOOLS button.

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

To delete channels from the Added Channels list, follow these

 Select one or more channels in the Added Channels list using the ▲/▼ buttons and the Yellow (Select) button on your

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

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

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 ou add channels back to the Added Channels list on the

The Add menu option only appears for deleted channels.

All Channels list. A gray-colored channel indicates the channel has been deleted from the Added Channels list.

MAdd 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 stens:

1. Select one or more channels in the All Channels/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 Add to Favorite in the Tools menu, and then press the

# ENTER 🗗 button.

#### ■ No Signal Power Off (Off / 15 min. / 30 min. / 60 min.): Sets how quickly the TV switches to standby mode, if no picture is

being received.

Self Diagnosis

off when no user operation is received for 4 hours. Support Menu

Disabled when the PC is in power saving mode.

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

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

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

follow the directions on the screen. ■ 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 PIN option.

## firmware from samsung.com to a USB memory device.

Software Upgrade

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

Software Upgrade can be performed by downloading the latest

## **Contact Samsung**

Media Play

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

### ☐ Connecting a USB Device

USB Mass Storage Class (MSC) device.

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

1. Turn on your TV.

2. Connect a USB device containing photo, music, and/or movie files to the USB jack on the back of the TV. A pop up window 3. Press the MEDIA.P button on your remote. The Media Play

menu appears

# Using the Media Play Menu



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

1. Press the MENU button. Then, press the ▲ or ▼ button to select Application on the left, and then press the ENTER

2. Press the ▲ or ▼ button to select Media Play (USB), and then press the ENTER 🗗 button. 3. Press the ◀ or ▶ button to select an icon (Videos, Music,

Photos, Settings), and then press the ENTER button. Media Play might not work properly with unlicensed

Need-to-Know List before using Media Play (USB) • The file system supports FAT16, FAT32 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 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 you 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 be supported. • Do not disconnect the USB device while it is loading.

• The higher the resolution of the image, the longer it takes to • The maximum supported JPEG resolution is 15,360 x 8,704

 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 Managemen (DRM) is a technology that supports the creation, distribution, and management of digital content in an integrated and comprehensive way, including protecting the rights and interests of content providers, preventing illegal copying of contents, and

managing billing and settlements. • PTP devices are not supported. If the device is over-powered while connecting or using a USB device, the device may not be recognized or may malfunction.

If the TV has no input during the time period set in Auto Protection Time, the Screensaver will run.

 The power-saving mode of some external hard disk drives may be released automatically when your connect them to the TV • If you use a USB extension cable, the TV may not recognize the USB device or may not be able to read the files on the device. • If a 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.  ${}^{\bullet}$  If a file you deleted from the PC is still found when you run  ${\bf Media}$ Play, use the "Empty the Recycle Bin" function on the PC to

 Photos only supports the sequential ipeg format. The Videos option does not support the scene search and thumbnail functions.

manently delete the file.

[UE4003-ZA]BN68-04459A-ENG.indd 1 2012-05-21 1 9:40:22

- If the number of files and folders saved on a USB storage device is Supported Video Formats 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



- Videos, and then press the ENTER 🗗 button.
- 2. Press the /▶/▲/▼ buttons to select a video in the file list.

- If video time information is unknown, playing time and the
- progress bar are not displayed.
- In this mode, you can play movie clips contained in a game, but you cannot play the game itself.

orted Subtitle Formats		-,mzts		/ MP / HP		
External				MPEG1	1920x1080	24/25/30
Name	File extension	*.dat *.mpg *.mpeg	PS	MPEG2	1920x1080	24/25/30
MPEG-4 timed text	.ttxt	*.vob		H. 264 BP / MP / HP	1920x1080	6~30
SAMI	.smi					
SubRip	.srt	 *.3gp	3GPP	MPEG4 SP / ASP	1920×1080	6~30
SubViewer	.sub			H.264	1920x1080	6~30
Micro DVD	.sub or .txt	*.flv	flash	H.264	1920x1080	6~30
SubStation Alpha	.ssa	*.swf	formats	Sorenson H.263	1920×1080	6~30
Advanced SubStation Alpha	.ass		I		L	L
		_				

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

920x1080

40x480

20x108

40x480

30Mbps

10Mbps

30Mbps

30Mbps

10Mbps

30Mbps

30Mbps

30Mbb

30Mbps

30Mbps

30Mbps

MPEG / LPCM / AAC

6~30 30Mbps

6~30 30Mbps

6~30

6~30

6~30

DivX 11/4.x/5.1

H264

AVC

MJPEG

MPEG4 SP / ASP

H264

MJPEG

ivX 3.11

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

# Video Decoder

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

- MPEG4 SP. ASP - Below 1280 x 720: 60 frame max
- Above 1280 x 720: 30 frame max

Other Restrictions

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 ◀/▶/▲/▼ 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 play. Media Play only displays files with MP3 and PCM file extension. Other file extensions are not displayed, even if they are saved on the same USB device.
- <sup>™</sup> 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.)

#### <u>Photos</u>



- 1. In the Media Play menu, press the ◀ or ▶ button to select Photos, then press the ENTER 🗗 buttor
- Press the ◄/►/▲/▼ buttons to select a photo in the file list. 3. Press the ENTER → button or ► (Play) button.
- While a photo list is displayed, press the ▶ (Play) / ENTER button on the remote control to start a slide show. . All files in the file list section will be displayed in the slide show
- During the slide show, files are displayed in order. During the slide show, you can adjust the slide show speed using
- (⋖) (REW) or (▶▶) (FF) button. You can move to other files using 

  or 

  button
- Media Play can play music files automatically during a Slide Show if Background Music is set to On.
- You cannot change the Mode in Background Music until the Background Music file has finished loading.
- Supported Photo Formats

Image	Photo	Resolution
IPEG	Base-line	15360 x 8704
JPEG	Progressive	1024 x 768
Other Destriction		

#### 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

# Remove the left and right audio connections from the set-top-box. If the buzzing stops, this indicates that the set-top-box has a grounding issue. Replace the Component video cables with an HDMI connection. The picture will not display in full screen. • HD channels will have black bars on either side of the screen when displaying up scaled SD (4:3) contents Black bars on the top and bottom appear when movies that have aspect ratios different from your TV play on the · 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. Program the Cable/Set top box remote control to operate the TV. Refer to the Cable/Set top box user manual for the SAMSLING TV code. 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 Caption on the TV menu is greved out. You cannot select Caption in the TV menu when watching content from a device connected via HDMI or Caption must be activated on the external device

There is a plastic smell from the TV. . This smell is normal and will dissipate in a few days. This function is only available for digital channels received through an Antenna / RF / Coax connection. TV Signal Strength is unavailable in the Self Diagnosis Test menu. TV is tilted to the right or left side. · Remove the stand base from the TV and reassemble it The Channel menu is grev 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** → **Plug & Play** → ENTER [♣]. 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 connections. You see small particles when you look closely X the edge of the frame of the TV.

This is part of the product's design and is not a defect.

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

#### Media Play - Additional Functions

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

Category	Operation	Videos	Music	Photos
Title	You can select another video file to play directly.	<b>✓</b>		
Repeat Mode	You can play movie and music files repeatedly.	~	<b>~</b>	
Picture Size	You can adjust the picture size to your preference.	<b>✓</b>		
Picture Mode	You can adjust the picture setting.	<b>✓</b>		<b>✓</b>
Sound Mode	You can adjust the sound setting.	~	<b>✓</b>	<b>✓</b>
Subtitle Setting	You can play the video with Subtitles. This function only works if the subtitles have the same file name as the video.	~		
Audio 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.			<b>✓</b>
Slide Show Speed	You can select the slide show speed during the slide show.			<b>~</b>
Background Music	You can set and select background music when watching a Slide Show.			<b>~</b>
Zoom	You can zoom into images in full screen mode.			<b>✓</b>
Rotate	You can rotate images in full screen mode.			<b>✓</b>
Information	You can see detailed information about the	~	~	~

Category Operation Videos Music Photos

#### Settings

Using the Setup Menu

■ Information: Select to view information about the connected USB

## Other Information

#### Installing the Wall Mount Kit

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

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. Samsung Electronics is not responsible for any damage to the product or injury to vourself or others 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. Install your wall mount on a solid wall perpendicular to the floor. When attaching to other building materials, please contact your nearest dealer. If you install the TV on a ceiling or slanted wall, it may fall and result in severe personal injury.

#### NOTE

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

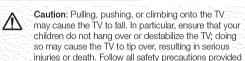
and all parts necessary for assembly are provided

- When purchasing our wall mount kit, a detailed installation manual
- Do not use screws that do not comply with the VESA standard screw specifications.
- Do not use screws that are longer than the standard dimension
- or do not comply with the VESA standard screw specifications. Screws that are too long may cause damage to the inside of the
- 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. San 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 Family	TV size in inches	VESA screw hole specs (A * B) in millimeters	Standard Screw	Quantity
	LED-TV	19~22	75 X 75	144	
		26	100 X 100	M4	
		32~40	200 X 200	M6	4
		46~60	400 X 400	M8	

Do not install your Wall Mount Kit while your TV is turned on. It may result in ersonal 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

the anti-fall device for safety purposes, as follows.

on the included Safety Flyer. For added stability, install

- 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.
- $\ensuremath{\,^{ imes}}$  We strongly recommend you drive the screws into a stud. 2. Using screws, insert the screws through the TV brackets, and then fasten the screws to the top VESA screw holes on the back of the
- 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
- 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 wall 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 care.

## Storage and Maintenance

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



Do not spray water directly onto the product. Any liquid that goes into the 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



TheaterSound, SRS and the @ symbol are TheaterSound technology is incorporated under licence from SRS Labs. Inc.

SRS TheaterSound™ provides the most immersive urround sound experience from the TV's built-in speakers, while maintaining steady volume and delivering rich bass and clear dialog



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

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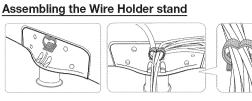
#### Kensington Lock

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

additional information on proper use 

slot is beside the "₪" icon.

The position and color may differ depending on the model.



Display Modes (HDMI/DVI Input)

4003 series: 1366 x 768@60Hz / 5003 series: 1920 x 1080@60Hz

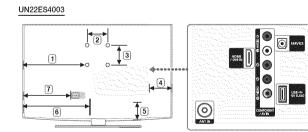
If the TV seems to have a problem, first review this list of possible problems and solution. If none of these troubleshooting tips apply, visit samsung.com, then click on Support, or call Samsung customer service at 1-800-SAMSUNG.

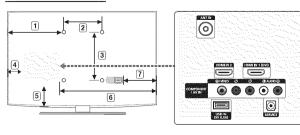
Problem	Possible Solution
Flickering and Dimming	If your Samsung Television is flickering or dimming sporadically, you may need to disable some of its energy efficient features like the Eco Sensor or the Energy Saving feature. Follow the steps below with your remote to turn these features off or on.  • Energy saving: Menu → Setup → Eco Solution → Energy Saving → Select Settings
Component Connections / Screen Color	If you find that the color on your Samsung television's screen is not correct or black and white, first run a Self Diagnosis Test on the TV to make sure there are no device issues.  ■ Self Diagnosis: User Menu → Support → Self Diagnosis → Picture Test
	If the test is ok, try making sure ;
	Your connections are all consistent. For example, if you've used the AV In jack on your TV, make sure you have used the AV Out jack on your video source.
	<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 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 Sleep Timer is not accidentally set. The Sleep Timer lets you fall asleep with the TV still on knowing that it will turn off after a certain period of time and not waste energy.  • Sleep Timer: User Menu → Setup → Time → Sleep Timer
	If the Sleep Timer is not activated, you may have engaged the No Signal Power Off or Auto Power Off feature.
	<ul> <li>No Signal Power Off: User Menu → Setup → Eco Solution → No Signal Power</li> <li>Auto Power Off: User Menu → Setup → Eco Solution → Auto Power Off</li> </ul>
Trouble Powering On	Before you turn the TV on, find the red light on the right or left bottom of your TV. Press the power on button on the TV or remote and the light should blink about 5 times before the TV turns on.
	If you find that you are having trouble powering on your Samsung television, there are a number of things to check it before making a call to the service department.
	<ul> <li>If you happen to be using the TV as a monitor and the stand-by light only blinks for a few seconds when you press the power button, your PC is in sleep mode. To take your PC out of sleep mode, press a key on your keyboard or move the mouse. Then try turning your TV on.</li> </ul>
	If you're sure your power cord, remote control, and PC are functioning properly, you may be having a cable issue. If you have a cable or satellite box, your TV may appear to be off because the cable or satellite box is not outputting a signal. To test the signal output of your cable or satellite box, press the guide or in the guide or in button on the cable or satellite box remote control. If the screen displays the guide or info data, the problem is caused by the box.
Stand Assembly	If you have any trouble assembling the stand, refer to "Install the Stand" in the Start Up or Stand Installation Guide.
Cannot find a channel	Re-run Plug & Play or run Auto Program. (go to MENU - Channel - Auto Program)

Specifications Environmental Consideration 50°F to 104°F (10°C to 40°C Operating Temperature 10% to 80%, non-condens -4°F to 113°F (-20°C to 45°C Storage Temperature 5% to 95%, non-condens Model Name UN22ES4003 UN32EH4003 UN39EH5003 Display Resolution 1920 x 1080 (31.5" measured diagonal (Diagonal) (21.5" measured diagonally (38.5" measured diagonally) 3W x 2 5W x 2 10W x 2 Dimensions (W x H x D) 29.0 X 17.4 X 3.6 inches 20.4 X 12.5 X 1.9 inches 35.2 X 20.9 X 3.6 inches (518.9 X 319.7 X 49.0 (mm)) (738.4 X 444.0 X 93.2 (mm)) (895.9 X 532.5 X 93.2 (mm)) With stand 20.4 X 13.9 X 4.8 inches 35.2 X 23.2 X 8.9 inches (518.9 X 354.1 X 123.4 (mm)) (738.4 X 497.7 X 191.7 (mm (895.9 X 589.3 X 227.6 (mm)) 11.9 lbs (5.4 kg) Without Stand 17.1 lbs (7.8 kg) 13.2 lbs (6.0 kg) 21.6 lbs (9.8 kg)

- 7.2 lbs (3.3 kg) With Stand
- Design and specifications are subject to change without prior notice.
- This device is a Class B digital apparatus.
- 🦠 For information about the power required and more about power consumption, refer to the label attached to the product.
- Typical power consumption is measured according to Energy Star Program requirements for televisions. 🗞 Dispose unwanted electronics through an approved recycler. To find the nearest recycling location, go to our website: www. samsung.com/recyclingdirect or call, (877) 278-0799.

## ■ JACK PANEL DETAIL / REAR VIEW





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.

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UN32EH4003 (Unit: inches)

UN22ES4003

2012-05-21 🗓 9:40:28

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

3. Press the ENTER → button or ► (Play) button. The file name is displayed on the top of the screen with the playing time.

During video playback, you can search using the ◀ and ▶

First, perform the Picture Test and to see if your TV is displaying the test image properly Go to MENU - Support - Self Diagnosis - Picture Test If the test image is properly displayed, the poor picture may be caused by the source or signal. The TV image does not look as good as it did in the store.

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

 Cable/Satellite subscribers: Try HD channels from the channel line up. Air/Cable Antenna connection: Try HD channels after running Auto Program. Many HD channels broadcast up scaled SD (Standard Definition) content. The picture quality of up scaled SD content is low. Adjust the Cable/Set top box video output resolution to 1080i or 720p. • Compression of video contents may cause picture distortion, especially on fast moving pictures such as those in The picture is distorted: macrobloci 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 tacks.

Color is wrong or missing. Incorrect or loose connections may cause color problems or a blank screen Adjust the Picture options in the TV menu. (go to Picture Mode / Color / Brightness / Sharpness) There is poor color or brightness. Adjust the Energy Saving option in the TV menu. (go to MENU - Setup - Eco Solution - Energy Saving)
Try resetting the picture to the default picture settings. (go to MENU - Picture - Picture Reset) There is a dotted line on the edge of If the picture size is set to Screen Fit, change it to 16:9. If you are using an AV composite input, connect the video cable (yellow) to the Green jack of Component Input 1 on the TV.

 If connected to a cable box, please try to reset it. (Reconnect the AC cord and wait until the cable box reboots. It
may take up to 20 minutes) Set the output resolution of the cable box to 1080i or 720p Perform the Sound Test to confirm that your TV audio is properly operating (go to MENU - Support - Self Diagnosis - Sound Test) If the audio is OK, the sound problem may be caused by the source or signal. There is no sound or the sound is too • Check the volume of the device (Cable/Sat Box, DVD, Blu-ray, etc.) connected to your TV.

cáble box's audio option to HDMI if the box is connected to your TV using an HDMI cable.

e, check the device's audio output optior

• Check the cable connections. Make sure a video cable is not connected to an audio input. • For Antenna or Cable connections, check the signal information. A weak signal may cause sound distortion. • Perform the Sound Test as explained above. Make sure the AC power cord is securely plugged into the wall outlet and the TV. Make sure the wall outlet is working. Try pressing the POWER button on the TV to make sure the problem is not the remote.
 If the TV turns on, refer to 'Remote control does not work' below.

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

The TV turns off automatically. • Ensure the Sleep Timer is set to Off in the Time menu. If your PC is connected to the TV, check your PC power settings.

Make sure the AC power cord is plugged securely into the wall outlet and the TV. When you are watching TV connected to an antenna or cable connection, the TV will turn off after 10 - 15 minutes if there is no signal. Check the cable connections. (Remove and reconnect all cables connected to the TV and external devices)

 Set your external device's (Cable/Sat Box, DVD, Blu-ray etc) video outputs to match the connections to the TV
input. For example, if an external device's output is HDMI, it should be connected to an HDMI input on the TV. Make sure your connected devices are powered on. Be sure to select the correct input source by pressing the SOURCE button on the remote control.

 Reboot the connected device by reconnecting the device's power cable. · Run Auto Program to add available channels to the channel list. go to MENU - Channel - Auto program then select Auto and make sure the correct Cable TV signal type is set in the menu. There are 3 options. (STD, HRC and IRC)

 Verify the antenna is positioned correctly. Check the Caption Setup menu. Try changing Caption Mode Service 1 to CC1. Some channels may not have caption data. Compression of video contents may cause picture distortion, especially on fast moving pictures such as those in A weak signal can cause picture distortion. This is not a TV problem.

Poor Picture

Sound Problems

No Picture, No Video The TV will not turn on

Antenna(Air / Cable) Connection The TV is not receiving all channels.

The picture is black and white.

The picture is good, but there is no The speakers are making an

There is no picture/vide

No Caption on digital channels

The picture is distorted: macrobloc

[UE4003-ZA]BN68-04459A-ENG.indd 2

MPEG4 SP / ASP H.264 6~30 30Mbps MPEG2 20x1080 4. 264 BP

## Music