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 PDP Displays (with 16-9 aspect ratios, the 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, with the images constantly in motion. Displaying stationary graphics and images on the screen, such as the dark sidebars on non-expanded standard format television video and programming, should be limited to no nore than 5% of the total television viewing per week.

Additionally, viewing other stationary images and text such as stock market crawls, video game displays, station logos, web sites or computer graphics and patterns, should be limited as described above for all televisions. Displaying stationary images for more than 5% of total viewing time can cause uneven aging of your PDP display and leave subtle, but permanent burned-in ghost mages in the PDP picture. To avoid this, vary the programming and image and primarily display full screen moving images, not stationary patterns or dark bars. On PDP models that offer picture sizing features, use these controls to view different formats as a full screen picture.

Be careful in the selection of television formats you use for viewing and the amount of time you view them. Uneven PDP 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

Subject to the requirements, conditions, exclusions and limitations of the original • Caution 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 State 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

Excluded, but not limited to, are any originally specified provisions for, in-Excluded, but not infilled to, are any originally specified provisions on, 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 call toll-free

Important User Information

©

press the TOOLS button.

Added Channels list.

appears.

appears.

ENTER → button.

All Channels list.

ENTER button.

press the ENTER 🗗 button.

Do not display a still image (such as that from a video game) on the plasma display panel for more than a few minutes. Still images can cause screen of brightness and contrast of the screen when displaying a still image.

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is the responsibility of the purchaser. Conditions covered are limited only to manufacturing defects in material or workmanship, and only those encountered in normal use of the product.

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

Screen Image retention

image retention (burn in). To avoid such image retention, reduce the degree Heat on the top of the Plasma TV

The top side of the TV may become hot after long periods of use as heat dissipates from the panel through the vent hole in the upper part of the TV.

Display Icons Used in the Channel List Screens

A selected channel.

A reserved program

A program currently being broadcast.

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

Madd / Delete: Delete a channel from or add a channel to the

To delete channels from the Added Channels list, follow these

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

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

To add channels to the Added Channels list, follow these steps:

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

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

▲/▼ buttons and the Yellow Select button on your remote.

. Select **Add** in the Tools menu, and then press the ENTER 🗗

All deleted channels will be shown on the All Channels list.

A gray-colored channel indicates the channel has been

The Add menu option only appears for deleted channels.

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

3. Select Add to Favorite in the Tools menu, and then press the

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

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

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

Add to Favorite/Delete from Favorite: Lets you add channels

deleted from the Added Channels list.

to and delete channels from your Favorites list.

To add channels to the Favorites list, follow these steps:

You add channels back to the Added Channels list on the

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

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

☐ The Channel List Tools Menu TOOLS ☐

A Favorite channel

This is normal and does not indicate any defect or operational failure of unit However, children should be prevented from touching the upper part of

The TV is making a 'cracking' noise.

A 'cracking' noise may occur when the TV contracts or expands due changes in the surrounding environment such as temperature or humidity This is normal and not a defect. · Cell Defects

our plasma TV has a panel containing 2,360,000 (HD-level) to 6,221,000 (FHD-level) 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. Avoid operating the TV at temperatures below 41°F (5°C)

. A still image displayed too long may cause permanent damage to the



Vatching the Plasma TV in 4:3 format for a long period of me may leave traces of the borders on the left, right, top, or ottom of the screen. Playing a DVD or a game console may ave a similar effect. Damage caused by the above effect is covered by the warranty.

After-images on the Screen Displaying still images from Video games or a PC for longer than a certain

period of time may produce partial after-images. To prevent this effect, reduce the 'brightness' and 'contrast' when displaying still images for a Warranty

Warranty does not cover any damage caused by image retention.

Burn-in is not covered by the warranty

The glass screen of your PDP TV can break if you accidently drop the TV. Handle the TV with care, When moving the TV, always hav two or more people pick it up and carry it as a safety precaution. Do not lay the TV flat on its face or back.

Your Samsung Plasma TV is a high quality television that has been carefully packaged to protect the integrity of its glass panel and component parts during shipment. It is, nonetheless, a fragile piece of electronics that requires careful handling. Refrain from putting undue stress on any part of the packaging when shipping or unpacking the TV. Use care when installing the TV. Avoid placing the TV in a location where it may be struck, exposed to sharp impacts, or fall. Panel breakage caused by a fall or impact strike is not covered under the

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ervice 55 Standish Court 85 Challenger Road lississauga, Ontario L5R Ridgefield Park, NJ Service 55 Standish Cou 07660-2112 Center 富

■ Timer Viewing: You can schedule a channel to be displayed

function to use Time Viewing.

appears.

To schedule a channel, follow these steps:

automatically at a set time, even when you are watching anothe

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

12:01 am

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

are 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

scheduled viewing. For Everyday, the TV will turn on

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

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

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

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

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

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.

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

You can only select Deselect All when one or more

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

Programmed List (on the Channel List Screen)

have scheduled for viewing using the **Time Viewing** function. You

can view, modify, or delete a show you have scheduled using the

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

The Programmed list displays the channels and programs you

functions on the Programmed List screen Tools menu.

Programmed List Screen Tools Menu TOOLS 7

■ Deselect All: Deselect all the selected displayed channels.

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

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

ENTER → button. The Time Viewing screen appears.

Date Start Time

number keypad on your remote.

and time you selected.

channels are selected.

1. Select one or more channels in the All Channels list using the Channel Name Edit: Analog channels only. Lets you assign a

Only Added channels can be scheduled

buttons and the Yellow Select button on your remote

channel. You must set the current time first in the Time > Clock

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. A Tools menu symbo (🗐) in the lower right side of the screen indicates that a Tools menu 🔳 Color Space (Auto / Native): Auto automatically matches the

The Main menu has seven primary categories:

 Picture Sound Application

 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. ■ Gamma: Adjusts the primary color intensity.

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

Channel

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 normally lit room.

Movie: Darkens the screen, making it less glary. Suitable for vatching movies in a darkened roon

■ Entertain: Sharpens the picture. Suitable for games. Only available when the TV is connected to a PC.

Cell Light / Contrast / Brightness / Sharpness / Color / Tint (G/R)

Cell Light: 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 Cell Light. 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: 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 Cell Light, Contrast, Brightness, and

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

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

entry you want to change, and then press the TOOLS button.

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

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

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

■ Cancel Schedules: Cancel a show or channel you have

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.

entry you want to cancel, and then press the TOOLS button.

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

3. Select Cancel Schedules, and then press the ENTER

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

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

The **Time Viewing** Information screen appears.

4. Select Change Info and press the ENTER → button

ENTER button to close the Information screen.

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

☐ Other Channel Menu Functions

Channel Mode (Added Channels/Favorite

_ets you select the channel list displayed when you press the

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

select Favorite Channels, you will only see Favorite channels when

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

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

Select the channel, and then select Fine Tune.

then select Reset on the Fine Tune screen.

to change information, or select Close and press the

have scheduled. You can also change the schedule Information

Channel List screen, and then press the ENTER button.

entry you want information for, and then press the TOOLS

Information, and then press the ENTER button

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

button. The Cancel Schedule screen appears.

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

button. The Tools Menu appears.

channels in the channel list.

you press the ACHV button.

in the channel banner.

Analog channels only.

Fine Tune

and the $\blacktriangle/\blacktriangledown$ buttons to change the entries. Where numbers

are displayed, you can also enter numbers directly using the

To change the information, follow these steps:

The Time Viewing screen appears

number keypad on your remote.

The Tools Menu appears.

5. Press the ENTER button when done.

The Tools Menu appears.

Advanced Settings Input Source ailable in **Standard** and **Movie** mode only. 16:9. Zoom1 Compared to previous models, new Samsung TVs offer a more ATV, AV, Component (480i, 480p) precise picture with more precise controls. When your TV is connected to a PC, you can only make DTV (1080i, 1080p), Component (1080i, 16:9. Wide Fit. changes to Gamma and White Balance. 1080p), HDMI (720p, 1080i, 1080p) 4:3. Screen Fit

range of colors available to create pictures to the color range of

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

■ 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.

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

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

Dynamic Contrast (Off / Low / Medium / High): Adjusts the

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

Flesh Tone: Adjusts the amount of red in skin tones.

Available in Standard mode only.

Motion Lighting (Off / On): When on, the TV automatically

adjusts the brightness of the screen in response to the

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

changes to the Color Tone, Size and HDMI Black Level

the picture bluer (cooler). Warm 1 and Warm 2 make the picture

Color Tone (Cool / Standard / Warm1 / Warm2): Cool makes

Warm1 and Warm2 are deactivated when the picture

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

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

screen sizes as well. However, we highly recommend you use

Zoom1: Provides moderate magnification of the picture. Sides,

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

Wide Fit: Enlarges the aspect ratio of the picture so the picture

4:3: Sets the picture to the old, 4:3 format and puts black or gray

races of borders displayed on the left, right and center of

the screen may cause image retention (screen burn) which

Do not watch your TV in the 4:3 format for a long time.

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

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

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

You can adjust and store settings for each external device you

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

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

by Input Source are listed above and to the right:

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

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

2 Press ENTER → and select Auto or Manual, and then press

The TV will automatically download the correct time from a

• Select Time Zone, and then press the ENTER 4 button

Select DST (Daylight Savings Time), and then press

the Clock Mode is set to Auto.

ENTER . Select On if you want to turn the DST

Use the ▲/♥ buttons to select your Time Zone, and then

ment 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.

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

Available only when Clock Mode is set to Manual.

Automatically shuts off the TV after a preset period of time. (30,

Activate/Inactivate fields for the **On Time** and **Off Time**. Use the

♦/▶ buttons to move from field to field. Use the A/▼ buttons.

the setting you have chosen, set the Activate/Inactivate field to

to change the values in each field. To activate the timer with

Turns the TV on and off automatically at times and days you

select. You can set three different on/off timer settings.

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

DST and Time Zone function are only available when

instructions, see your Quick Start Guide

evel to adjust the screen depth. Darker settings make blacks

brightness of the room. In bright light, the screen brightens. In

color range of the video source.

look darker.

dim light, the screen dims.

mode is set to **Dynamic**.

top, and bottom are cut off.

and bottom are cut off.

fits the entire screen.

the TV's 16:9 mode most of the time.

borders on the right and left of the picture.

is not covered by the warranty.

1080i / 1080p) HD signals.

Setup Menu

Language

Time

of the TV.

clock again.

ENTER again.

digital channel.

If you selected Auto

press ENTER .

If you selected Manual:

60, 90, 120, 150 and 180 minutes).

Timer 1 / Timer 2 / Timer 3

You must set the clock first.

■ Volume: Set the desired loudness.

Activate.

To cancel the Sleep Timer, select Off

Sleep Timer 100 57

To set the clock, follow these steps:

1. Select Setup >Time > Clock.

Set the menu language

■ Setting the Time

Picture Options

redder (warmer).

Digital Noise Filter (Off / Low / Medium / High / Auto): If the padcast signal received by your TV is weak, you can activate the Digital Noise Filter feature to reduce any static and ghosting a better listening experience for the hearing impaired. hat may appear on the screen.

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

options until the TV displays the best picture.

■ HDMI Black Level (Normal / Low): For HDMI signals, select the black level to adjust the screen depth. Low make blacks look

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 Reset: Resets the equalizer to its default settings. optimum quality

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

Screen Burn Protection: To reduce the possibility of screen burn, this unit is equipped with Pixel Shift screen burn prevention—the problem of playing 5.1 multichannel content through two echnology. Pixel Shift moves the picture slightly on the screen. The Time function setting allows you to program the time between movement of the picture in minutes. • Pixel Shift (Off / On): Using this function, you can set the TV multichannel formats.

to move pixels minutely on the PDP screen in a horizontal or vertical direction to minimize after images on the screen. Available Pixel Shift Settings and Optimum Settings

	Available Settings	Optimum Settings		
Horizontal	0~4 (pixels)	4		
Vertical	0~4 (pixels)	4		
Time (minute)	1~4 min	4 min		
# T				

The Pixel Shift value may differ depending on the monitor size (inches) and mode

This function is not available in the Screen Fit mode you are having difficulty receiving a stereo signal. Your TV also has the following additional screen burn

protection functions: Scrolling: This function removes after-images on the screen by illuminating all the pixels on the PDP according to a pattern.

Use this function when there are after images or symbols or he screen, especially when you displayed a still image on the The after-image removal function has to run a long time

(approximately 1 hour) to remove after-images on the screen effectively. If the after-image is not removed after you run the function, run the function again. Press any key on the remote control to cancel this

feature. • Side Gray (Dark/Light): Lets you select the color of the sidebars your TV displays when you set the screen size to 4:3.

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

Contents: To select what will be turned on when the timer

the ▲/▼ buttons to change the values in each field.

connected to your TV before you can select USB.

the USB device:

appears.

re-appears.

to select the folder.

Other Features

Component mode

How It Works

Program Rating Lock

device lower than USB 2.0

the type or name of the device

- TV/USB: Select TV or USB. The USB device must be

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

- Antenna: Displays the current antenna source, Air or Cable

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

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

or the field under Photo, and then press the ENTER

2. Press the ENTER button. A list of folders on the device

If there are no folders on your device, press the

Use the ▲/▼ buttons to highlight a folder that contains

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

or Manual. If you select Manual, you can select the days you

When you finished making all your selections on the Timer screen,

day, highlight it, and then press the ENTER - button.

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

Program Rating Lock is not available in HDMI or

feature and make any changes, you must enter a PIN (personal identification number). To watch a blocked program, you must also

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

When you access the Program Rating Lock Menu functions for

time you access the Program Rating Lock functions, the PIN

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

set your own PIN using the Change PIN function.

press either the ENTER or RETURN button.

want to activate the timer by using the
√> buttons to highlight

the day, and then pressing the ENTER 🗗 button. To unselect a

button. The TV displays a single folder (the Boot folder) and

Yellow select button to select the Root folder, and

then press the RETURN button. The Timer screen

music or photos, and then press the Yellow select button

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

- Music/Photo: If you have selected USB, follow these steps to

Sound Menu

Standard: Selects the normal sound mode.

Mode TOOLS

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

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

SRS TruSurround HD (On/Off)

Available in Standard sound mode only.

SRS TruSurround HD is a patented SRS technology that solves speakers. TruSurround delivers a compelling, virtual surround sound experience through any two-speaker playback systen including internal television speakers. It is fully compatible with all

Preferred Language

Digital channels only. Digital-TV broadcasts can transmit many audio tracks

imultaneously (for example, simultaneous translations of a program into foreign languages). Nou 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

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

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

SPDIF Output

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.

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

children are watching.

nglophone 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

Game Mode (On/Off)

(On-Screen Text Dialogue)

select a folder containing MP3 (Music) or JPEG (Photo) files on Canadian English: You can block TV programs based on their

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

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

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

with advanced information on which films are appropriate for

■ 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

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

tables have ratings listed on the left. The TV Parental Guidelines

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

TV ratings. / FV: Fantasy violence / V: Violence / S: Sexual situation

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.

When you click a low rating, all the ratings above it will also display

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

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

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

When you connect a game console such as a PlayStation $\ensuremath{^{\text{TM}}}$

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

experience by turning on the Game Mode function.

Precautions and limitations for game mode:

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

Before you disconnect the game console and connect another

external device, set Game Mode to Off in the setup menu

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

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

You may notice slightly reduced picture quality.

■ 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

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

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

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

implemented a rating system that provides parents or quardians

■ 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.

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

Analog Caption function operates in either analog TV channel

TV. (Depending on the broadcasting signal, the Analog Caption function may or may not work with digital channels.) Default / Service1~Service6 / CC1~CC4 / Text1~Text4: (Digita channels only) The Digital Captions function works with digital

Service1~6 may not be available in digital caption mode depending on the broadcast.

■ Digital Caption Options: (Digital channels only) Size: Options include Default, Small, Standard and Large. The default is Standard

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

Foreground Color: Options include Default, White, Black, Red. Green, Blue, Yellow, Magenta and Cyan. You can change the color of the letters. The default is White.

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 Foreground Color, Background Color, Foreground Opacity and

Background Opacity to its default. Digital Caption Options are available only when you car select Default and Service1 ~ Service6 in Caption Mode.

The Foreground and Background cannot be set to the same Melo<u>dy</u>

Lets you control whether a melody plays when the TV is turned on

The **Melody** does not play:

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

been reduced to minimum with the VOL – button When the TV is turned off by the Sleep Timer function. Auto Protection Time

Auto Protection Time (Off / 10 min / 20 min / 40 min / 1 hour): the screen remains idle with a still image for a certain period of time you define, the screen saver is activated to prevent the formation of

ghost images on the screen. **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 the volume button to turn on the screen.

brightness with the Min Cell Light function.

■ Eco Sensor (Off / On): To enhance power savings, the picture settings will automatically adapt to the light in the room. If you adjust Cell Light in the Picture menu, the Eco Sensor

Min Cell Light: When Eco Sensor is On, you can manually adjus

If Eco Sensor is On, the display brightness may change (become slightly darker or brighter) depending on the light intensity in your room. You can control the screen's minimum

press ENTER 74. Go to Step 3. Madio Delay: Lets you correct timing mismatches between the

By connecting the TV to a receiver or home theater with

Digital, you can maximize your interactive 3D sound

audio track and the video when you are watching the TV and

listening to digital audio output from the TV through an external

device such as an AV receiver. When you select **Audio Delay**, a

slider appears. Use the left and right arrow buttons to adjust the

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

by the difference in decoding speed between the TV's speakers

When you set Speaker Select to External Speaker, the

When Speaker Select is set to External Speaker, the

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

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

memorization function without having to re-run the Plug & Play

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

determines the signal source the TV is tuned to. For example

if you receive your TV signal over the air, and you select Cable

you will see only snow. You must select Air to see a picture.

available over the air or through your cable system and adds them to

1. Push MENU Ⅲ → Channel → ENTER 🗗 on your remote. The

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

ENTER . The TV will automatically start memorizing channels.

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

The Auto Program function memorizes all channels that are

To start Auto Program, follow these steps:

Antenna Source screen appears.

selected the signal source, go on to the Auto Program function.

Selecting the signal source using the Antenna function also

system and added them to the **Channel List**. The **Antenna** and

Auto program functions described below let you re-run the channel

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

TV's speakers are turned off. You will hear sound through t

slider. Press ENTER When done (0ms ~ 250ms).

Speaker Select (External Speaker / TV Speaker)

are on. You will hear sound through both

Speaker Settings

the TV to External Speaker.

settings will be limited.

Channel Menu

Antenna (Air / Cable)

Auto Program

the Channel List.

signal.

Memorizing Channels

Sound Reset

procedure.

external speakers will be mute.

Dolby Digital and 5.1ch speakers and selecting Dolby

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

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

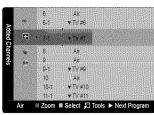
automatically select the correct Antenna source. Go to Step 3. 3. On the Cable Type screen, use the </bd>
✓/►/▲/▼ buttons to select the type of digital and analog cable systems you have: STD, HRC or IRC. Most systems are STD (Standard). When done, select Start, and then press ENTER . The TV will start memorizing

on your cable system. Memorized channels are added to the Added Channel and the speakers attached to your audio receiver. If this occurs, set

list. These are the channels you will see when you use the Channel buttons on your remote.

Speaker both the TV's speakers and the external speakers Press the ENTER button to stop the Clear Scrambled

VOLUME and **MUTE** buttons will not operate and the sound This function is only available in Cable mode



icon using the **△**/♥ buttons to view each list. Channels: Shows all currently available channels including those you deleted from the Added channels list

channels that appear when you press the CH button.

scheduled using Timer Viewing.

Remote control buttons active on the Channel List screen

• Green (Zoom): Enlarges or shrinks a channel number. Yellow (Select): Move the cursor to a channel. Press the Yellow

■ No Signal Power Off (Off / 15 min. / 30 min. / 60 min.): Sets

how quickly the TV switches to standby mode, if no picture is

mode or when a signal is supplied from an external device to the ■ Auto Power Off (Off / On): The TV will be automatically turned off vhen no user operation is detected for 4 hours.

Support Menu

quality is either perfect or the channels are unavailable. Adjust your intenna to increase signal strength.

Reset: Reset all settings to the factory defaults.

The PIN input screen appears before the setup screen.

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

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

our call centers and how to download products and software.

/ledia Play

Enjoy photos, music and/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 menu

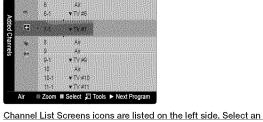


ress the MENU button. Then, press the ▲ or ▼ button to select

Application on the left, and then press the ENTER → button.

Managing Channels

nu'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 in the All Channels, Added Channels, or Favorite screen, pressing the ▲ / ▼ buttons, and then pressing the ENTER 🗗 button.



Added Channels: Shows all Added channels. These are the

Favorite: Shows all favorite channels. Programmed: Shows all channels and programs currently

button to select the channel. A \checkmark mark appears. Repeat to select additional channels. Then, open the Tools menu and apply a function to the channels you selected. • 🞜 (Tools): Displays the Channel List Tools menu. (The Tools nenus may differ depending on the situation.

being received. Disabled when the PC is in power saving mode.

Self Diagnosis

Picture Test: Use to check for picture problems. If the problem appears in the test picture, select Yes and follow the directions on

Sound Test: Use the built-in melody sound to check for sound problems. If the problem occurs during the test, select Yes and

follow the directions on the screen. Signal Strength: (Digital channels only) An HD channel's reception

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

Software Upgrade

HD Connection Guide

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

☐ Connecting a USB Device

2. Connect a USB device containing photo, music, and/or movie files to the USB jack on the back of the TV. A pop up window appears

☐ Using the Media Play Menu



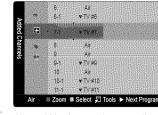
channels. Channel memorization can take up to 45 minutes, depending through an external receiver, you may hear a sound echo caused

Clear Scrambled Channel external speakers only. When you set Speaker Select to TV This function filters out scrambled channels after Auto Program is completed. This process may take up to 20~30 minutes.

Channel.

Channel List

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



- 3. Press the ◀ or ▶ button to select an icon (Videos, Music,
- Photos, Settings), and then press the ENTER button. 3. Press the ENTER → button or ▶ (Play) button.
- Media Play might not work properly with unlicensed multimedia files.
- Need-to-Know List before using Media Play (USB)
- The file system supports FAT16, FAT32 and NTFS.

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

 1. In the Media Play menu, press the ◀ or ▶ button to select Videos, and then press the ENTER → button. 2. Press the ◀/▶/▲/▼ buttons to select a video in the file list.
 - playing time. - If video time information is unknown, playing time and the progress bar are not displayed.
 - During video playback, you can search using the ◀ and ▶ buttons.

- The file name is displayed on the top of the screen with the

n this mode, you can play movie clips contained in a game,

File Extension	Container	Video Codeo	Resolution	Frame rate(fps)	Bit rate(Mbps)	Audio Codec	<u>Photos</u>
* 4	A	H.264	1920x1080	6~30	30Mbps		™ ► Normal
*.flv *.swf	flash formats	Sorenson	1920x1080	6~30	30Mbps	MP3	17.40

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.

:	Immedi024.pg	10244763	2010/2/1	3/15
467		1/2		
	100			
		10		
		7		
	and the second	-11/		
		0.00		
Γ¥P	ause 🕩 Prev	ious/Next 4	Tools ⁵	Return

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

Media Play - Additional Functions ■ Videos/Music/Photos Play Option menus

When playing a file, press the TOOLS button. Category Operation Videos Music Photos You can select another video file to play directly. Repeat Mode \checkmark You can adjust the picture size to Picture Size Picture Mode You can adjust the picture setting.

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. 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

Note: The Section of the Policy in the P hown in the table

The position and color may differ depending on the model.

To lock the product, follow these steps:

Wrap the Kensington lock cable around a large, stationary object such as desk or chair.

Optimal resolution is 1024 x 768@60Hz.

Display Modes (HDMI Input)

al	Mode	Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Fixel Clack Frequency (MHz)	Sync Polanty (H / V)
	IBM	640 x 350	31.469	70.086	25.175	+/-
	IDIVI	720 x 400	31.469	70.087	28.322	-/+
	MAC	640 x 480	35.000	66,667	30.240	-/-
	MAC	832 x 624	49.726	74.551	57.284	-/-
		640 x 480	31.469	59.940	25.175	-/-
		640 x 480	37.861	72,809	31.500	-/-
		640 x 480	37.500	75,000	31.500	-/-
		900 4 600	97 970	80.917	40.000	161

7	NOTE
	 Standard dimensions for wall mount kits are sh below.
	• When purchasing our wall mount kit, a detailed

- 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.

	IBM					
		720 x 400	31.469	70.087	28.322	-/+
	MAC -	640 x 480	35.000	66,667	30.240	-/-
		832 x 624	49.726	74.551	57.284	-/-
		640 x 480	31.469	59.940	25.175	-/-
		640 x 480	37.861	72,809	31.500	-/-
ct		640 x 480	37.500	75,000	31.500	-/-
		800 x 600	37.879	60.317	40.000	+/+