user manua

only and may differ from actual product appearance. Product design and specifications may be changed without notice.

Still image warning

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

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

Securing the Installation Space

Keep the required distances between the product and other objects (e.g. walls) to ensure proper ventilation. Failing to do so may result in fire or a problem with the product due to an increase in the internal temperature of the product.

- When using a stand or wall-mount, use parts provided by Samsung If you use parts provided by another manufacturer, it may result in a
- problem with the product or an injury due to the product falling The appearance may differ depending on the product.
- Be careful when you contact the TV because some parts can be

Add, delete or set Favorite channels and use the program guide for

Channels, Favorite or Programmed screen by pressing the ▲ / ▼

buttons, and pressing the ENTER - button. Then you can watch

digital broadcasts. Select a channel in the All Channels, Added

Channel Menu

☐ Seeing Channels

4 7-1 ♥ TV #7

♥ TV #9

Air ■ Zoom ■ Select 🖈 Tools ➤ Next Progra

■ **Favorite**: Shows all favorite channels

the selected channels.

Channel Status Display icons

Memorizing channels

TV (i.e. an Air or a Cable system).

[UE4003-ZX]BN68-04466C-ENG.indd 1

Antenna (Air / Cable) TOOLS 7

A channel selected.

A reserved program

A channel set as a favorite

A program currently being broadcast

Before your television can begin memorizing the available channels,

you must specify the type of signal source that is connected to the

Icons

①

All Channels: Shows all currently available channels.

■ **Programmed**: Shows all currently reserved programs

Using the remote control buttons with the Channel List

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

• Yellow (Select): Selects multiple channel lists. Select desired

channels and press the Yellow button to set all the selected

els at the same time. The 🗸 mark appears to the left of

■ ___ Added Channels: Shows all added channels.

Channel List

the selected channel



Installation with a wall-mount.



Contact SAMSUNG WORLDWIDE

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

Country	Customer Care Center 22	Web Site
MEXICO	01-800-SAMSUNG(726-7864)	www.samsung.com
ARGENTINA	0800-333-3733	www.samsung.com
BRAZIL	0800-124-421 4004-0000	www.samsung.com
CHILE	800-SAMSUNG(726-7864)	www.samsung.com
COLOMBIA	01-8000112112	www.samsung.com
COSTA RICA	0-800-507-7267	www.samsung.com
DOMINICA	1-800-751-2676	www.samsung.com
ECUADOR	1-800-10-7267	www.samsung.com
EL SALVADOR	800-6225	www.samsung.com
GUATEMALA	1-800-299-0013	www.samsung.com
HONDURAS	800-7919267	www.samsung.com
JAMAICA	1-800-234-7267	www.samsung.com
NICARAGUA	00-1800-5077267	www.samsung.com
PANAMA	800-7267	www.samsung.com
PERU	0-800-777-08	www.samsung.com
PUERTO RICO	1-800-682-3180	www.samsung.com
TRINIDAD & TOBAGO	1-800-SAMSUNG(726-7864)	www.samsung.com
VENEZUELA	0-800-100-5303	www.samsung.com

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- I IMPORTADO POR: SAMSUNG ELECTRONICS MÉXICO S.A. de C.V. I AV. PRESIDENTE MASARIK #111 INT701 I COL CHAPULTEPEC MORALES C.P. 11570
- DELEGACION MIGUEL HIDALGO MEXICO. DISTRITO FEDERAL 01-55-5747-5100 / 01-800-726-7864

Getting Started

<u>Accessories</u>

Cable

TV Controller (Panel Key)

HDMI

USB

Power on

Adjusting the volume

Using the function

Selecting the MENU

Power Off ((¹))

Channel Mode

Favorite.

Fine Tune

(analog channels only)

channel banner.

Mode Tools

Color / Tint (G/R)

Advanced Settings

orecise picture.

(available in Standard / Movie mode)

Gamma and White Balance.

available to create the image

Picture Menu

Select your preferred picture type

■ Dynamic: Suitable for a bright room.

■ Standard: Suitable for a normal environment.

Only available when connecting a PC.

■ Movie: Suitable for watching movies in a dark room.

■ Entertain: Suitable for watching movies and games.

To reset the fine-tuning, select Reset

4003

5003

Remote Control & Batteries (AAA x 2)

• Owner's Instructions

Power Cord Warranty Card / Safety Guide

Input Cables (Sold Separately)	
HDMI HDMI-DVI	ComponentComposite (AV)	Coaxial (RF)
Check the cab	le before plua-in	

⊕ 🗂 🖽

Ports		Do not plug o
98989899	<u>(i)</u>	down. Be sure to ch plug-in.

Turns the TV on by pressing the controller in standby

Adjusts the volume by moving the controller from side

Selects a channel by moving the controller up and

nction menu screen appears. If you press it again,

elects the **MENU(III)** by moving the controller in the unction menu screen. The OSD(On Screen Display)

Selects the **Source List**(-) by moving the controller in the function menu screen. The **Source**

Selects the MEDIA.P by moving the controller in

the function menu screen. The Media Play main

o side when the power is on

down when the power is or

of your TV's feature appears.

noving the controller in the function

right directions, be sure not to press the controller. If you press it first, you

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

Fine tuned channels that have been saved are marked with ar

When connecting a PC, you can only select Entertain and

Your television has several setting options for picture quality control.

When connecting a PC, you can only make changes to

Backlight, Contrast, Brightness and Sharpness

Compared to previous models, new Samsung TVs have a more

When connecting a PC, you can only make changes to

■ Color Space (Auto / Native): Adjusts the range of colors

■ White Balance: Adjusts the color temperature for a more natural

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

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

the signal is weak or distorted, fine tune the channel manually.

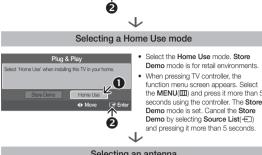
the function menu screen disappears.



 $\mathbf{0}$

Plug & Play (Initial Setup)

'Connections')



When you turn the TV on for the first time, a sequence of on-screen

prompts will assist in configuring basic settings. Press the POWER

button. Plug & Play is available only when the Input source is set to

Selecting a language

Select the desired OSD (On Screen

Connecting the power cord and antenna. (refer to

essing the ▲, ▼, ◀ or ▶ button

Setting the Clock Mode Set the Clock Mode automatically o DST(Daylight Saving Time). en select whether to turn DS'

Viewing the HD Connection Guide

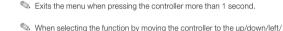
The connection method for the best HD screen quality is displayed.

 \downarrow



(Daylight Savings Time) on or off, Select

Enjoy your TV. Selects the **Power Off** (**b**) to turn the TV off by Press the ENTER 4 buttor



cannot operate it to move the up/down/left/right directions

List screen appears

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How to Stop Auto Programming

☐ Other Features

Clear Scrambled Channel

This function filters out scrambled channels after Auto Program is

Press the ENTER button to stop the Clear Scrambled Channel.

This function is only available in Cable mode.

Channel List

Channel List Option Menu TOOLS

Set each channel using the Channel List menu options. Option menu items may differ depending on the channel status.

A gray-colored channel indicates the channel has been

The **Add** menu only appears for deleted channels.

menu in the same manner.

• 🖅 (Tools): Displays the Channel List option menu. (The Options 🔲 Add to Favorite / Delete from Favorite 🔟 ■ Timer Viewing: You can set a desired channel to be displayed

automatically at the set time; even when you are watching another channel. Set the current time first to use this function.

When a digital channel is selected, press the ► (Next) Program) button to view the digital program. If you select

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

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

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

can also change the reservation Information.)

in the channel list.

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

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

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

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

Auto Program

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

 After all the available channels are stored, it starts to remove scrambled channels. The **Auto program** menu then

Press the ENTER button to stop the channel store during Auto Program

Press the ENTER 🚭 button.

2. A message will ask Stop Auto Program? Select Yes by pressing the ◀ or ▶ button.

3. Press the ENTER button

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

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

All deleted channels will be shown on the All Channels

Only memorized channels can be reserved.

Reserved programs will be displayed in the Programmed

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

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

channels are selected

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

Programmed Reset: Resets the White Balance to it's default settings. (in Channel List) ■ Gamma: Adjusts the primary color intensity. You can view modify or delete a show you have reserved to watch. ■ Dynamic Contrast (Off / Low / Medium / High): Adjusts the

■ Black Tone (Off / Dark / Darker / Darkest): Select the black level to adjust the screen depth.

Available in Standard mode only.

■ Flesh Tone: Emphasize pink "flesh tone" ■ Motion Lighting (Off / On): Reduce power consumption by brightness control adapted motion.

Picture Options

Change the channel mode directly between **Added Channels** and When connecting a PC, you can only make changes to the Color Tone, Size and HDMI Black Level. Favorite Channels.

■ Color Tone (Cool / Standard / Warm1 / Warm2) The Favorite Channels is enabled only when you set Add to Warm1 or Warm2 will be deactivated when the picture mode is **Dynamic**.

■ Size: Your cable box/satellite receiver may have its own set of screen sizes as well. However, we highly recommend you use

16:9 mode most of the time. 16:9: Sets the picture to 16:9 wide mode. Zoom1: Use for moderate magnification.

Zoom2: Use for a stronger magnification. Wide Fit: Enlarges the aspect ratio of the picture to fit the entire

4:3: Sets the picture to basic (4:3) mode.

Do not watch in 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 are not covered by the warranty.

Screen Fit (DTV): Displays the full image without any cut-off when HDMI (720p / 1080i / 1080p) or Component (1080i / 1080p) signals are inputted.

MD (High Definition): 16:9 - 1080i/1080p (1920x1080), 720p Settings can be adjusted and stored for each external device

you have connected to an input on the TV.

Picture Sizes available by Input Source: Input Source Picture Size 16:9, Zoom1, Zoom2, 4:3 Backlight / Contrast / Brightness / Sharpness / 480p)

DTV(1080i, 1080p). 16:9, Wide Fit, 4:3, Screen Component (1080i, 1080p), HDMI (720p, 1080i, 1080p)

■ Digital Noise Filter (Off / Low / Medium / High / Auto): If the broadcast signal received by your TV is weak, you can activate the Digital Noise Filter feature to reduce any static and ghosting that may appear on the screen

When the signal is weak, try other options until the best picture is displayed ■ HDMI Black Level (Normal / Low): Selects the black level on the

screen to adjust the screen depth 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 optimum quality. 🖎 Available in ATV, DTV(interlace), AV, COMPONENT (480i /

1080i) and HDMI (480i / 1080i). ■ LED Motion Plus (Off / On): Removes drag from fast scenes with a lot of movement to provide a clear picture

Picture Reset

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

Sound Menu

ANT IN

Mode Tools₁

For UN22ES4003 connection, you can refe

to UN32EH4003 / UN39EH5003 according to

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

connection numbers.

Connections

VHF/UHF Antenna

HAH

Media Play

Using a USB Drive

0 0

TV Rear Panel

Power Input

UN22ES4003

Power Input

UN32EH4003 / UN39EH5003

USB ←← (5V 0.5A)

AV Device (2)

(up to 1080p)

Using a Component Cable

Blu-ray player

HDMI IN 2 HDMI IN 1 (DVI)

SERVICE

V/VIDEO (2) (3) (4) AUDIO (3)

 $|(\Omega)$

TV Rear Pane

■ Movie: Provides the best sound for movies. ■ Clear Voice: Emphasizes voices over other sounds ■ Amplify: Increase the intensity of high-frequency sounds to allow a

better listening experience for the hearing impaired.

Equalizer

(standard sound mode only)

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

■ 100Hz / 300Hz / 1KHz / 3KHz / 10KHz (Bandwidth Adjustment) Adjusts the level of specific bandwidth frequencies. ■ Reset: Resets the equalizer to its default settings.

SRS TruSurround HD

(standard sound mode only)

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

Preferred Language

Digital-TV broadcasts are capable of simultaneous transmission of many audio tracks (for example, simultaneous translations of the program into foreign languages).

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

Multi-Track Sound (MTS)

(analog channels only) ■ Mono: Choose for channels that are broadcasting in mono or if you are having difficulty receiving a stereo signal.

■ Stereo: Choose for channels that are broadcasting in stereo ■ SAP: Choose 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 broadcasting station has its own signal conditions, the volume may fluctuate each time channel is changed. This feature lets you automatically adjust the volume of the desired 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

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

Setup Menu

□ Setting the Time

the audio does not work.

- 3

• SERVICE: Connector for service only

The current time will appear every time you press the INFO

button

■ Clock: Setting the clock is for using various timer features of the If you disconnect the power cord, you have to set the clock

Clock Mode: Set the current time manually or automatically. Clock Set: Set the Month. Dav. Year. Hour. Minute and am/pm. Available only when Clock Mode is set to Manual.

Time Zone: Select your time zone. DST (Daylight Saving Time): Switches the DST (Daylight Saving

ne) function on or off DST and Time Zone function is only available when the Clock Mode is set to Auto.

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

Timer 1 / Timer 2 / Timer 3

Three different on / off timer settings can be made. You must set the

■ On Time / Off Time: Set the hour, minute, am/pm and Activate / Inactivate. (To activate the timer with the setting you have chosen, set to Activate.)

■ Volume: Set the desired volume level. ■ Contents: When the On Time is activated, you can turn on a

Antenna: Displays the current antenna source

specific channel or play back contents such as photo or audio files. TV/USB: Select TV or USB. (Make sure that an USB device is connected to your TV.)

Channel: Select the desired channel. Music/Photo: Select the folder containing MP3/JPEG files on the USB device. The maximum displayed number of files, including sub

folders, in one folder of USB storage device is 2000. The media may not be playing smoothly when using the device lower than USB 2.0. ■ Repeat: Select Once, Everyday, Mon~Fri, Mon~Sat, Sat~Sun or

Manual to set at you convenience. If you select Manual, you can

□ Other Features

set up the day you want to activate the timer.

Program Rating Lock The Program Rating Lock feature automatically locks out programs that are deemed inappropriate for children. The user must enter a

PIN (personal identification number) before any of the Program Rating Lock restrictions are set up or changed. Program Rating Lock is not available in HDMI or Component

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

Changing the Input Source

Source List

UN22ES4003

1. Press the SOURCE button.

UN32EH4003 / UN39EH5003

2. Select a desired external input source.

■ TV / AV / Component / HDMI/DVI

■ TV / AV / Component / HDMI1/DVI / HDMI2

You can only choose external devices that are connected

to the TV. In the **Source List**, connected inputs will be

AV Device (1)

Blu-ray player / DVD / cable

to 1080p)

HDMI OUT

box / sat box

DVI OUT

PC

PC

AV Device (3)

VCR

external device that uses an older version of HDMI mode is connected to the TV. If such a problem occurs, ask the manufacturer of the external device about the HDMI

Be sure to purchase a certified HDMI cable. Otherwise, the picture may not display or a connection error may occur.

• For HDMI/DVI cable connection, you must use the HDMI IN 1(DVI) or HDMI / DVI

• Connecting through the HDMI cable may not be supported depending on the PC.

• If an HDMI to DVI cable is connected to the HDMI IN 1(DVI) or HDMI / DVI IN port,

• For better picture and audio quality, connect to a digital device using an HDM

The picture may not display normally (if at all) or the audio may not work if an

version and, if out of date, request an upgrade.

• DIGITAL AUDIO OUT(OPTICAL) is not supported.

• PC/DVI AUDIO IN input are not supported.

Using an Audio/Video

Using an HDMI Cable or

Use the PC speakers for

an HDMI to DVI Cable.

Using an HDMI Cable (up

access Edit Name, press the TOOLS button in Source List. The Use to select TV or an external input source such as a DVD player /

Blu-ray player / cable box / STB satellite receiver.

following selections appear under **Edit Name**: ■ VCR / DVD / Cable STB / Satellite STB / PVR STB / AV

How to use Edit Name

Receiver / Game / Camcorder / PC / DVI PC / DVI / TV / IPTV / Blu-ray / HD DVD / DMA: Name the device connected to the

input jacks to make your input source selection easier. When connecting a PC to the HDMI IN 1(DVI) or HDMI / DVI

Edit Name lets you associate a device name to an input source. To

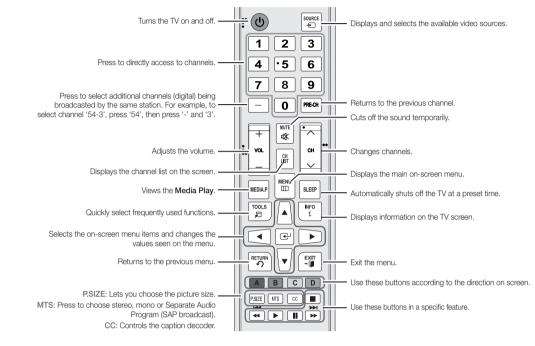
IN port with HDMI cable, you should set the TV to PC mode under Edit Name. When connecting a PC to the HDMI IN 1(DVI) or HDMI / DVI IN port with HDMI to DVI cable, you should set the TV to DVI

PC mode under Edit Name. When connecting an AV devices to the HDMI IN 1(DVI) or HDMI / DVI IN port with HDMI to DVI cable, you should set the TV to **DVI** mode under **Edit Name**.

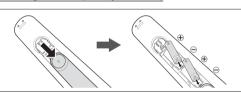
You can see detailed information about the connected external

Remote Control

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



Installing batteries (Battery size: AAA)



■ Program Rating Lock: You can block rated TV Programs.

■ Canadian English: You can block TV programs depending on

■ Canadian French: You can block TV programs depending on

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

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

4 digits for your PIN and enter it in **Enter New PIN** Re-enter

the same 4 digits in Confirm New PIN. When the Change PIN

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

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

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

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

Choose between English, Español and Français.

Precautions and limitations for game mode

When connecting to a game console such as PlayStation™ or

Xbox™, you can enjoy a more realistic gaming experience by

To 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.

Unfortunately, you may notice reduced picture quality.

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

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

function may or may not work with digital channels.)

depending on the broadcast

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

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

Analog Caption function operates in either analog TV channel

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

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

(digital channels only) The Digital Captions function works with

Service1~6 may not be available in digital caption mode

their Anglophone Canadian.

their French Canadian rating.

vour new PIN.

Language

Game Mode

Caption

(On-Screen Text Messages)

HDMI mode.

digital channels.

Set the menu language.

selecting the game menu

be used while watching DTV channels.

NOTE • Use the remote control within 23 feet from TV.

Bright light may affect the performance of the remote control

oid use when nearby fluorescent lights or neon signs.

■ Digital Caption Options: (digital channels only)

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

■ TV Parental Guidelines: You can block TV programs depending Size: Options include Default, Small, Standard and Large. The on their rating. This function allows you to control what your default is Standard. children are watching. Font Style: Options include Default and Styles 0 to 7. The ■ MPAA Rating: You can block movies depending on their MPAA default is Style 0.

rating. The Motion Picture Association of America(MPAA) has Foreground Color: Options include Default, White, Black, Red. implemented a rating system that provides parents or guardians Green, Blue, Yellow, Magenta and Cyan. You can change the with advanced information on which films are appropriate for color of the letter. The default is White.

Background Color: Options include Default, White, Black, Red, Green, Blue, Yellow, Magenta and Cyan. You can change the background color of the caption. The default is Black. 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 Default and Service1 ~ Service6 can be selected in Caption

The Foreground and Background cannot be set to have the

same color.

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

• When no sound is output from the TV because the MUTE button has been pressed. 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 Sleep Timer function. **Auto Protection Time**

button to turn on the screen.

■ Auto Protection Time (Off / 2 hours / 4 hours / 8 hours / 10 hours): If the screen remains idle with a still image for a certain period of time defined by the user, the screen saver is activated to prevent the formation of ghost images on the screen.

Eco Solution

■ Energy Saving (Off / Low / Medium / High / Picture Off) : This adjust the brightness of the TV in order to reduce powe consumption. If you select Picture Off, the screen is turned off, but the sound remains on. Press any button except volume

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

Disabled when the PC is in power saving mode.

■ Auto Power Off (Off / On): The TV will be automatically turned off when no user operation is received for 4 hours.

2012-05-21 🗓 9:15:50

Support Menu

Self Diagnosis

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

Software Upgrade

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

HD Connection Guide

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

Contact Samsung

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

Media Play

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



☐ Connecting a USB Device

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

☐ Using the Media Play Menu



Application, then press the ENTER button.

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

Media Play only supports USB Mass Storage Class (MSC)

devices. MSC is a Mass Storage Class Bulk-Only Transpor device. Examples of MSC are Flash Card Readers. Devices

Before connecting your device to the TV, please back up your

not responsible for any data file damage or data loss.

Do not disconnect the USB device while it is loading.

"Not Supported File Format" message appears.

managing billings and settlements

Time, the Screensaver will run.

ermanently delete the file.

the Videos.

Photos only supports sequential jpeg format.

and some folders may not be opened.

• PTP device is not supported.

The TV cannot play MP3 files with DRM that have been

• 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

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

• 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 set in **Auto Protection**

 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

• If a file you deleted from the PC is still found when you run Media

• The scene search and thumbnail functions are not supported in

If the number of files and folders saved on a USB storage device is approximately over 4000, the files and folders may not appear

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

Play, use the "Empty the Recycle Bin" function on the PC to

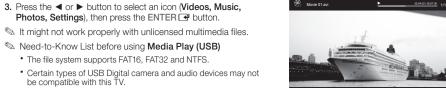
be supported.

display on the screen.

should be connected directly to the TV's USB port. USB HDD is

files to prevent them from damage or loss of data. SAMSUNG is

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



Videos

- 1. Press the ◀ or ▶ button to select Videos, then press the ENTER button in the Media Play menu.
- 2. Press the </

 /▶/▲/▼ button to select the desired video in the file
- 3. Press the ENTER button or (Play) button.
- The selected file is displayed on the top with its 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 ▶
- In this mode, you can play movie clips contained in a game, but you cannot play the game itself.

Supported Subtitle Formats

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

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

File Extension	Container	Video Codec	Resolution	Frame rate(fps)	Bit rate(Mbps)	Audio Codec	
		DivX 3.11/4.x/5.1/6.0	1920x1080	6~30	30Mbps	MP3 /	
*.mp4	MP4	H264	1920x1080	6~30	30Mbps	ADPCM / AAC	
		AVC	1920x1080	6~30	30Mbps		
		MJPEG	640x480	6~30	10Mbps		
*.avi *.mkv		DivX 3.11/4.x/5.1/6.0	1920x1080	6~30	30Mbps	MP3/	
	AVI, MKV	MPEG4 SP / ASP	1920x1080	6~30	30Mbps	AC3 / LPCM /	
		H264	1920x1080	6~30	30Mbps	ADPCM DTS Cor	
		MJPEG	640x480	6~30	10Mbps	D 10 001	

1920x1080 6~30 1920x1080 6~30 30Mbps 1920x1080 6~30 . 264 BP / MP 1920x1080 24/25/30 30Mbps 264 BP / MP 1920x1080 6~30 30Mbps 1920x1080 6~30 30Mbps

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 table above.
- If the Index Table is in error, 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 file.

Video Decoder

Supports up to H.264, Level 4.1 H.264 FMO / ASO / RS, VC1 SP / MP / AP L4 and AVCHD are not supported. MPEG4 SP, ASP

 Below 1280 x 720: 60 frame max - Above 1280 x 720: 30 frame max

H.263 is not supported

GMC is not support.

Audio Decoder

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

Music

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1. Press the ◀ or ▶ button to select Music, then press the ENTER button in the Media Play menu.

Troubleshooting

[UE4003-ZX]BN68-04466C-ENG.indd 2

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

Problem	Possible Solution				
Flickering and Dimming	If your Samsung Television is flickering or dimming sporadically, you may need to disable some of its energy efficien features like the Eco Sensor or the Energy Saving feature. If you follow below step with your remote, you can turn these features off or on.				
	Energy saving : User Menu → Setup → Eco Solution → Energy Saving				
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 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.				
	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 TV, the red Pr jack on the source to the red Pr jack on the TV.				
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. Backlight, Contrast, Brightness, Sharpness, Color, Tint and so on. Go in to "Picture" on user Menu then try adjusting options mentioned above.				
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 you Sleep Timer is not accidentally set. The sleep timer allows you the comfort of falling asleep with the TV still on but, turns it off after a certain period of time so as not to waste energy.				
	$\bullet \ Sleep Timer : User Menu \to Setup \to Time \to Sleep Timer$				
	If the Sleep Timer is not activated, you may have engaged the No Signal Power Off or Auto Power Off feature.				
	No Signal Power Off: User Menu → Setup → Eco Solution → No Signal Power Auto Power Off: User Menu → Setup → Eco Solution → Auto Power Off: No Signal Power Off: User Menu → Setup → Eco Solution → Auto Power Off:				
	 Auto Power Off: User Menu → Setup → Eco Solution → Auto Power Off Before Turn on check red light on the right or left bottom of your TV. Press power on button on TV or remote 				
	and it will blink about 5 times before turning on. If you find that you are having trouble powering on your Samsung television, there are a number of things to check before making a call to the service department. If you happen to be using the TV as a monitor and the stand-by light only blinks for a few seconds when you press the power button, your PC is in sleep mode. To take your PC out of sleep mode, press a key on your keyboard or move the mouse. Then try turning your TV on.				
	If you're sure your power cord, remote control, and PC are functioning properly, you may be having a cable issue. It you have a cable or satellite box, your TV may appear to be off because the cable or satellite box is not outputing signal. To test the signal output of your cable or satellite box, press the guide or info button on the cable or satellite box remote control. If the screen displays the guide or info data, the problem is caused by the box.				
Stand Assembly	If you have any trouble to assemble the stand though you refer to "Install the Stand" mentioned at separate guide				
Cannot find channel	Re-run plug and play.				
Poor picture	First, perform the Picture Test and to see if your TV is properly displaying the test image. 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 performing Auto program. Many HD channels are up scaled from SD(Standard Definition) contents. Adjust the Cable/Set top box video output resolution to 1080i or 720p.				
The picture is distorted: macroblock error, small block, dots, pixelization.	Compression of video contents may cause picture distortion, especially on fast moving pictures such as 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.				
Color is wrong or missing.	If you're using a component connection, make sure the component cables are connected to the correct jacks. Incorrect or loose connections may cause color problems or a blank screen.				
There is poor color or brightness.	Adjust the Picture options in the TV menu. (go to Picture Mode / Color / Brightness / Sharpness) Adjust Energy Saving option in the TV menu. (go to MENU - Setup - Eco Solution - Energy Saving) Try resetting the picture to view the default picture setting. (go to MENU - Picture - Picture Reset)				

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Problem	Possible Solution
There is a dotted line on the edge of the screen.	If the picture size is set to Screen Fit, change it to 16:9. Change cable/satellite box resolution.
The picture is black and white.	If you are using an AV composite input, connect the video cable (yellow) to the Green jack of component input 1 on the TV.
When changing channels, the picture freezes or is distorted or delayed.	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 output resolution of the cable box to 1080i or 720p.
Sound Problem	First of all, please 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 caused by the source or signal.
There is no sound or the sound is too low at maximum volume.	Please check the volume of the device (Cable/Sat Box, DVD, Blu-ray, etc.) connected to your TV.
The picture is good but there is no sound.	If you are using an external device, check the device's audio output option (ex. you may need to change your cable box's audio option to HDMI when you have a HDMI connected to your TV). Reboot the connected device by reconnecting the device's power cable.
The speakers are making an inappropriate noise.	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.
No Picture, No Video	
The TV will not turn on.	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.
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 in securely to 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.
There is no picture/video.	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 TV's correct source by pressing the SOURCE button on the remote control. Reboot the connected device by reconnecting the device's power cable.
Antenna(Air / Cable) Connection	
The TV is not receiving all channels.	Make sure the coaxial cable is connected securely. Please try 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.
No Caption on digital channels.	Check the Caption Setup menu. Try changing Caption Mode Service 1 to CC1. Some channels may not have caption data.
The picture is distorted: macroblock, error, small block, dots, pixelization.	Compression of video contents may cause picture distortion. Especially on fast moving pictures such as sports and action movies. A weak signal can cause picture distortion. This is not a TV problem.
Others	
Purple/green rolling horizontal bars and buzzing noise from the TV speakers with Component cable connection.	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 & Bottom will be shown on movies that have aspect ratios different from your TV. 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 batteries with correct polarity (+/-). Clean the transmission window located on the top of the remote control. Try pointing the remote directly at the TV from 5-6 feet away.
The cable/set top box remote control does not turn the TV on or off, or adjust the volume.	Program the Cable/Set top box remote control to operate the TV. Refer to the Cable/Set top box user manual for the SAMSUNG TV code.

2. Press the ◀/►/▲/▼ button to select the desired Music in the file ■ Playing the video/music/photo file group

- 3. Press the ENTER → button or ► (Play) button.
- During music playback, you can search using the ◀ and ►
- (REW) and **F** (FF) buttons do not function during play.
- Only displays the files with MP3 and PCM file extension. Other file extensions are not displayed, even if they are saved on the same USB device.
- If the sound is abnormal when playing MP3 files, adjust the Equalizer in the Sound menu. (An over-modulated MP3 file may cause a sound problem.)



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

 or

 button.
- Supported Photo Formats

Image	Photo	Resolution
	Base-line	15360 x 8704

1024 x 768

Other Restrictions

• CMYK, YCCK Color space JPEG are not supported.

Playing Multiple Files

- Playing selected video/music/photo files
- 1. Press the Yellow button in the file list to select the desired file.
- 2. Repeat the above operation to select multiple files. NOTE
- To cancel a selection, press the Yellow button again.
- To deselect all selected files, press the TOOLS button and select Deselect All.
- 3. Press the TOOLS button, and then select Play Selected Contents.

A "Mode Not Supported" message

Caption on the TV menu is greyed out.

There is a plastic smell from the TV. TV **Signal Strength** is unavailable in the **Self Diagnosis** Test menu.

TV is tilted to the right or left side.

Your settings are lost after 30 minutes of every time the TV is turned off.

You have intermittent loss of audio or

You see small particles when you look closely at the edge of the frame of

POP (TV's internal banner ad) appears

Storage and Maintenance

scratches.

License

The Channel menu is grey out

When playing a file, press the TOOLS button.

Repeat Mode

Picture Size

Sound Mode

Audio Language

Start Slide Show

Slide Show Speed

Information

the wall.

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Caption must be activated on the external device

· Remove the stand base from the TV and reassemble it

Check the cable connections and reconnect them.

Some functions and pictures shown in this manual are available on specific models only.

Do not spray water directly onto the product.

Any liquid that goes into the product may

cause a failure, fire, or electric shock.

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Manufactured under license under U.S. Patent Nos: 5,956,674; 5,974,380;

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SRS TheaterSound™ provides the most immersive surround sound experience from the TVs 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.

ABOUT IDVX VIDEC : DIXX'9 is a digital video format created by DixX, LLC, a subsidiary of Rovi Corporation. This is an official DixX Certified 9 device that plays DixX video. Visit fox, com for more information and software tools to convert your files into DixX videos. ABOUT DIXX VIDEO-ON-DEMAND: This DixX Certified 9 device must be registered in order to play purchased DixX Video-on-Demand (VOD) movies. To obtain your registration code, locate the DixX VOD section in your device setup menu. Go to vod. dixx.com for more information on how to complete your registration. Covered by one or more of the following U.S. patents: 7.295.673, 7.460.688, 7.515,710, 7.519,274 DixXV9, DixX Certified® and

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ne United States and other countries.

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

Solution State State

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

TV mode, go to MENU → Setup → Plug & Play → ENTER 🖃.

Nhis TFT LED panel uses a panel consisting of sub pixels which require sophisticated technology to produce. However, there may be a few bright or dark

🦠 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

This smell is normal and will dissipate over time

Using the Setup Menu

Other Information

Installing the Wall Mount Kit

Wall Mount Kit Specifications (VESA)

result in severe personal injury.

• Check the supported resolution of the TV and adjust the external device's output resolution accordingly. Refer to

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

Loss of audio or video can be caused by using overly rigid or thick cables. Make sure the cables are flexible enough for long term use. If mounting the TV to the wall, we recommend using cables with 90 degree connectors.

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• You cannot select **Caption** in the TV menu when watching content from a device connected via HDMI or

• This function is only available for digital channels from an Antenna / RF/Coax connection.

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

You can move the other file

You can play movie and music

You can adjust the picture size

You can adjust the sound

stitles. This function only

guage if the video has more

ame file name as the video

You can change the audio

ou can start or stop a Slide

ou can set and selec

tching a Slide Show

You can rotate images in full

about the played file.

You can see detailed information

■ Information: Select to view information on the connected device.

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

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

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

Clean the product with a soft cloth dampened

with in a small amount of water. Do not use a

flammable liquid (e.g. benzene, thinners) or a

cleaning agent.

To send inquiries and requests for questions regarding open sources, contact Samsung via Email (oss

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otherwise to promote the sale, use or other dealings in this Software without prior written authoriz

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

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

For detailed information on installing the wall mount, see the

The wall mount kit is not supplied, but sold separately

You can zoom into images in ful

 Standard dimensions for wall mount kits are shown in the table 1. While a file list is displayed, move to any file in desired group.

2. Press the TOOLS button, and then select Play Folder. When purchasing our wall mount kit, a detailed installation

manual and all parts necessary for assembly are provided Media Play - Additional Functions • Do not use screws that do not comply with the VESA standard ■ Videos/Music/Photos Play Option menus

NOTE

- 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. Samsung is not liable for these kinds of accidents.
- Samsung is not liable for product damage or personal injury when a non-VESA or non-specified wall mount is used or the consumer fails to follow the product installation instructions.
- Do not mount the TV at more than a 15 degree tilt.

 Alway 	s have two pe	ople mount the TV on	a wall.	
Product Family	TV size in inches	VESA screw hole specs (A * B) in millimeters	Standard Screw	Quant
	19~22 75 X 75	75 X 75	M4 M6	4
LED-TV	26	100 X 100		
	32~40	200 X 200		4
	46~60	400 X 400	M8	

Do not install your Wall Mount Kit while

your TV is turned on. It may result in

personal injury due to electric shock.

✓ | **✓** | **✓**

~

may cause the TV to fall. In particular, ensure that your children do not hang over or destabilize the TV; doing so may cause the TV to tip over, resulting in serious injuries or death. Follow all safety precautions provided on the included Safety Flyer. For added stability, install the anti-fall device for safety purposes, as follows.

To prevent the TV from falling

Securing the TV to the Wall

- Since the necessary clamps, screws, and string are not supplied, please purchase these additionally
- 1. Drive the screws into the clamps and firmly fasten them onto the wall. Make sure the screws are firmly fixed into the wall.
- 2. Remove the screws from the back center of the TV, put the screws into the clamps, and then fasten the screws onto the TV
- 3. Connect the clamps fixed onto the TV and the clamps fixed onto the wall with a strong cable and then tie the string tightly.
- Nerify 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.

It is safe to connect the string so that the clamps fixed on the wall are equal to or lower than the clamps fixed on the TV. Until the string before moving the TV.

Kensington Lock

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

- Please find a "
 icon on the rear of the TV. The Kensington slot is beside the "R" icon.
- The position and color may differ depending on the model.

Display Modes (HDMI/DVI Input)

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

101.4	640 x 350	31.469	70.086	25.175	+/-	~	-
IBM	720 x 400	31.469	70.087	28.322	-/+	· /	<i></i>
	640 x 480	35.000	66.667	30.240	-/-	·	~
MAC	832 x 624	49.726	74.551	57.284	-/-	~	~
	1152 x 870	68.681	75.062	100.000	-/-		~
	640 x 480	31.469	59.940	25.175	-/-	✓	~
	640 x 480	37.861	72.809	31.500	-/-	~	~
	640 x 480	37.500	75.000	31.500	-/-	~	✓
	800 x 600	37.879	60.317	40.000	+/+	~	~
	800 x 600	48.077	72.188	50.000	+/+	~	~
	800 x 600	46.875	75.000	49.500	+/+	✓	✓
	1024 x 768	48.363	60.004	65.000	-/-	~	~
	1024 x 768	56.476	70.069	75.000	-/-	✓	~
	1024 x 768	60.023	75.029	78.750	+/+	✓	✓
VESA DMT	1152 x 864	67.500	75.000	108.000	+/+		~
	1280 x 720	45.000	60.000	74.250	+/+	✓	✓
	1280 x 800	49.702	59.810	83.500	-/+		✓
	1280 x 1024	63.981	60.020	108.000	+/+		✓
	1280 x 1024	79.976	75.025	135.000	+/+		✓
	1366 x 768	47.712	59.790	85.500	+/+	~	✓
	1440 x 900	55.935	59.887	106.500	-/+		✓
	1600 x 900RB	60.000	60.000	108.000	+/+		~
	1680 x 1050	65.290	59.954	146.250	-/+		~
	1920 x 1080	67.500	60.000	148.500	+/+		~

Specifications

50°F to 104°F (10°C to 40°C) Operating Temperature 10% to 80%, non-condensing -4°F to 113°F (-20°C to 45°C) Storage Temperature 5% to 95% non-cond UN22ES4003 UN32EH4003 UN39EH5003 Model Name 1920 x 1080 Screen Size 39" Class 22" Class 32" Class (38,5" measured diagonally) (Diagonal) 10W x 2 3W x 2 5W x 2 Dimensions (W x H x D) 20.4 X 12.5 X 1.9 inches 29.0 X 17.4 X 3.6 inches 35.2 X 20.9 X 3.6 inches 20.4 X 13.9 X 4.8 inches 29.0 X 19.5 X 7.5 inches 35.2 X 23.2 X 8.9 inches 11,9 lbs (5,4 kg) Without Stand 7.2 lbs (3.3 kg 13,2 lbs (6,0 kg) 21.6 lbs (9.8 kg)

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- 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

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