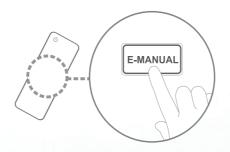


E-MANUAL



Thank you for purchasing this Samsung product. To receive more complete service, please register your product at

www.samsung.com/register

Model _____ Serial No.____

Contents

Channel Setting		Preference Features		Other Information	
Using the INFO button (Now & Next guide)	1	Executing initial setup	52	Viewing the e-Manual	8
Memorizing channels	2	Setting the Time	53	 Using the Self Diagnosis 	80
Using the Channel menu	3	Using the Sleep Timer	55	 Updating the Software 	90
Locking Programme	15	Setting the On / Off Timer	56	 Changing the Use Mode 	9
Other Features	17	 Economical Solutions 	61	 Viewing the Contact Samsung 	92
		Other Features	63		
Basic Features					
		Advanced Features			
 Changing the Preset Picture Mode 	27				
Adjusting Picture Settings	28	 Using the Source List 	68		
Changing the Picture Options	35	 Connecting a USB Device 	69		
Changing the Preset Sound Mode	42	 Using the Media Contents 	75		
Adjusting Sound Settings	43	 Playing the Photos / Videos / Music 	77		
Selecting the Sound Mode	51				

□ Using the INFO button (Now & Next guide)

The display identifies the current channel and the status of certain audio-video settings.

The Now & Next guide shows daily TV programme information for each channel according to the broadcasting time.

- When you press the **INFO** button, a channel information banner will appear on the top of the screen. And then press the **ENTER** button, you can see the details of the programme.
 - Scroll ◀, ► to view information for a desired programme while watching the current channel.
 - Scroll ▲, ▼ to view information for other channels.

- ☐ Memorizing channels
- Auto Tuning(depending on the country)

 - Automatically allocated programme numbers may not correspond to actual or desired programme numbers. If a channel is locked, the PIN input window appears.
 - Auto Tuning
 Channel Type (Digital & Analogue / Digital / Analogue): Select the channel source to memorise.

- Using the Channel menu
 - $\textcircled{\begin{tabular}{ll} \raggreenth{ 'Broadcasting} \to Channel \ List \to ENTER \end{tabular} }$

Channel List

The Channel List contains the channels your TV displays when you press the channel button. You can view channel information, All, TV, Radio, Data/Other, Analogue or Favourites 1-5.

Press ►(Mode) button to change the channel mode, or press ◄ (Sorting) button to change the channel order according to channel number or name on the list.

When you press the **CH LIST** button on the remote control, **Channel List** screen will be displayed at once.

Channel Sorting

 Number / Name: Arranges the channel order according to channel number or name on the list.

Channel Mode

- Edit Favourites: Set channels you watch frequently as favourites.
 - For detailed information about using Edit Favourites, refer to "Edit Favourites".
- Favourites 1-5: Shows all favourite channels, arranged in up to five groups. Each group has a separate screen.
 - The TV displays Favourites 1-5 only if you have added favourites using Edit Favourites.
- All: Shows all currently available channels.
- TV: Shows all currently available TV channels.
- Radio: Shows all currently radio channels.
- Data/Other: Shows all currently available MHP or other channels.
- Analogue: Shows all currently available analogue channels.

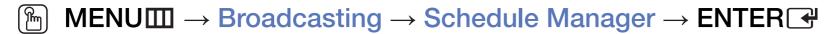
Guide

$\begin{tabular}{ll} \hline \ragged MENU & \longrightarrow Broadcasting \to Guide \to ENTER \blacksquare \\ \hline \end{tabular}$

The EPG (Electronic Programme Guide) information is provided by broadcasters. Using programme schedules provided by broadcasters, you can specify programmes you want to watch in advance so that the channel automatically changes to the selected programme channel at the specified time. Programme entries may appear blank or out of date depending on a channel status.

- Red (Quick Nav): Viewing the TV programmes on the list quickly using
 ▲/▼/◄/▶ buttons.
- B Green (Channel Category): Select the type of channels you want to display.
- Yellow (Schedule Manager): Moves to the reserved programmes in Schedule Manager.

Schedule Manager



You can set a desired channel to be displayed automatically at the intended time. In addition, you can view, modify or delete a channel you have reserved to watch.

- You must set the current time first using the $Time \rightarrow Clock$ function in the System menu to use this function.
- 1. Press the Schedule on the Schedule Manager screen. The Schedule Viewing menu appears.
- 2. Press the $\triangle/\nabla/\triangle/$ buttons to set each option menu.
 - Aerial: Select the desired broadcasting signal.
 - Channel: Select the desired channel.

- Repeat: Select Once, Manual, Sat~Sun, Mon~Fri or Everyday to set at your convenience. If you select Manual, you can set the day you want.
 - \nearrow The (\checkmark) mark indicates the day you've selected.
- Date: You can set the desired date.
 - It is available when you select **Once** in **Repeat**.
- Start Time: You can set the start time you want.
- If you want to edit or cancel a reserved schedule, select the reserved schedule on **Schedule Manager**. Then press the **ENTER** button and select the **Edit** or **Remove**.

Edit Channel



You can edit or delete channels.

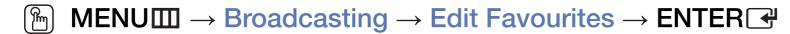
- 1. Go to Edit Channel screen.
- 2. Press the \triangle/∇ buttons to select the desired channel, then press the ENTER \Box button. The (\checkmark) mark indicates the channel you've selected.
 - You can select more than one channel.
 - Press the **ENTER** again to deselect the channel.

- Using the coloured and function buttons with the Edit Channel.
- Red (Change Number): Changes channel order on the channel list.
- Green (Lock / Unlock): Lock a channel so that the channel cannot be selected and viewed. / Unlock the channel that you locked.
 - This function is available only when the **Channel Lock** is set to **On**.
 - The PIN input screen appears. Enter your 4-digit PIN. Change the PIN using the **Change PIN** option.
- Yellow (Delete): Deletes a channel from the channel list.

- Blue (Select All / Deselect All): Selects or deselects all channels at once.
- [0~9] (Go To): Goes to channel directly by pressing numbers (0~9).
- \$\triangle\$ (Page): Move to previous or next page.
- $\sqrt{100}$ (Tools): Displays the option menu. The option menu items that appear may differ depending on the channel status and type.
 - Sorting (digital channels only): Changes the list ordered by channel number or channel name.

- Category: Change the channel mode to All, TV, Radio, Data/Other,
 Analogue, Recently Viewed, Most Viewed. The selected channel mode is displayed.
- Edit Favourites: Go to Edit Favourites screen directly.
- Rename channel (analogue channels only): Assign a name of up to five characters to a channel. For example, Food, Golf, etc. This makes it easier to find and select the channel.
- Channel Info: Display details of the selected channel.
- Information: Display details of the selected programme.

Edit Favourites TOOLS 和



You can add, edit or delete favourite channels.

- 1. Go to Edit Favourites screen.
- 2. Press the ▲/▼ buttons to select the desired channel, and then press ENTER → button.
- 3. Choose a specific favourite list among Favourites 1-5 using **B** (Change Fav.) button, and then press the **C** (Add) button. The selected channel has been added in Favourites 1-5.
 - One favourite channel can be added in several of favourites among Favourites 1-5.

- Using the coloured and function buttons with the Edit Favourites.
 - Red (Category / Change order)
 - Category: Changes the channel mode to All, TV, Radio, Analogue,
 Data/Other, Recently Viewed, Most Viewed. The selected channel mode is displayed.
 - Change order: Changes the favourite channel order.
 - ─ (Done): Completes changing the channel order.
- B Green (Change Fav.): Changes favourite list among Favourites 1-5.
- Yellow (Add / Delete)
 - Add: Adds selected channels to Favourites 1-5.
 - Delete: Deletes the favourite channel from Favourites 1-5.
- Blue (Select All / Deselect All): Selects or deselects all channels at once.

- [0~9] (Go To): Goes to channel directly by pressing numbers (0~9).
- \$\frac{1}{2}\$ (Page): Move to previous or next page.
- $\sqrt{100}$ (Tools): Displays the option menu. The option menu items that appear may differ depending on the channel status and type.
 - Copy to favourites: Edit the selected favourite channel in Favourites
 1-5. You can add or delete from favourite list.
 - Rename Favourites: Assign your own favourite channel name.
 - Edit Channel: Go to Edit Channel screen directly.
 - Information: Display details of the selected programme.

- □ Locking Programme
- Programme Rating Lock (depending on the country)
 - $\textcircled{\begin{tabular}{ll} \ragged MENU \rightarrow Broadcasting \rightarrow Programme Rating Lock \rightarrow ENTER \blacksquare \end{tabular}$

Prevent unauthorized users, such as children, from watching unsuitable programme with a user-defined 4-digit PIN code. If the selected channel is locked, the " \square " symbol will be displayed.

The items of **Programme Rating Lock** differs depending on the country.

Channel Lock



MENU → Broadcasting → Channel Lock → ENTER

Lock channels in Channel menu to prevent unauthorized users, such as children, from watching unsuitable programme.



Available only when the **Source** is set to **TV**.

- Other Features
- Channel Settings

 - Country (Area)

(depending on the country)

Select your country so that the TV can correctly auto-tune the broadcasting channels.

The PIN input screen appears. Enter your 4 digit PIN number. The default PIN number is "0-0-0-0."

Manual Tuning

Scans for a channel manually and stores in the TV.



According to the channel source, Manual Tuning may be supported.

• **Digital Channel Tuning**: Scans for a digital channel manually and stores in the TV. Press the **New** button to search the digital channels. When scanning has finished, a channel is updated in the channel list.



- Analogue Channel Tuning: Scans for an analogue channel. Press the New button to search the channels by adjusting the Programme, Colour System, Sound System, Channel, Search.
 - (Z) Channel mode
 - P (programme mode): When tuning is complete, the broadcasting stations in your area have been assigned to the position numbers from P0 to P99. You can select a channel by entering the position number in this mode.
 - C (aerial channel mode) / S (cable channel mode): These two modes allow you to select a channel by entering the assigned number for each aerial broadcasting station or cable channel.

Fine Tune

(analogue channels only)

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

- Fine tuned channels are marked with an asterisk "*".
- To reset the fine-tuning, select Reset.

Transfer Channel List

(depending on the country)

Imports or exports the channel map. You should connect a USB storage to use this function.

- The PIN number input screen appears. Enter your 4 digit PIN number.
- Supported file systems are FAT and NTFS.

Subtitle TOOLS



Use this menu to set the **Subtitle** mode.

- Subtitle: Switches subtitles on or off.
- Subtitle Mode (Normal / Hearing Impaired): Sets the subtitle mode.
- Subtitle Language: Sets the subtitle language.
 - If the programme you are watching does not support the **Hearing**Impaired function, **Normal** automatically activates even if the **Hearing**Impaired mode is selected.
 - English is the default in cases where the selected language is unavailable in the broadcast.
- Primary Subtitle: Sets the primary subtitle.
- Secondary Subtitle: Sets the secondary subtitle.

Audio Options

(digital channels only)

MENU → Broadcasting → Audio Options → ENTER

- Audio Language TOOLS ☐
 - Change the default value for audio languages.
 - The available language may differ depending on the broadcast.

Audio Format

When sound is emitted from both the main speaker and the audio receiver, a sound echo may occur due to the decoding speed difference between the main speaker and the audio receiver. In this case, use the TV Speaker function.

Audio Format option may differ depending on the broadcast. 5.1ch

Dolby digital sound is only available when connecting an external speaker through an optical cable.

Audio Description (not available in all locations)

This function handles the Audio Stream for the AD (Audio Description) which is sent along with the Main audio from the broadcaster.

Audio Description: Turn the audio description function on or off.

Volume: Adjust the audio description volume.

Teletext Language

(depending on the country)

- MENU → Broadcasting → Teletext Language → ENTER
- Teletext Language
 - English is the default in cases where the selected language is unavailable in the broadcast.
- Primary Teletext / Secondary Teletext
 - Primary Teletext and Secondary Teletext may not be supported in some locations.

Digital Text

(depending on the country)

MENU → Broadcasting → Digital Text → ENTER

If the programme broadcasts with digital text, this feature is enabled.

Only MHEG EPG will function in New Zealand.

Edit Channel Number

(New Zealand only)



Use this to change channel number. When channel number is changed, channel information is not updated automatically.

- ☐ Changing the Preset Picture Mode
- Picture Mode TOOLS □
 - MENU → Picture → Picture Mode → ENTER

Select your preferred picture type.

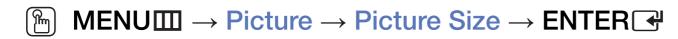
- When connecting a PC, you can only make changes to the **Entertain** and **Standard**.
- Dynamic: Suitable for a bright room.
- Standard: Suitable for a normal environment.
- Natural for LED 5 series : Suitable for reducing eye strain.
- Movie: Suitable for watching movies in a dark room.
- Entertain: Suitable for watching movies and games.
 - It is only available when connecting a PC.

- □ Adjusting Picture Settings
- Backlight / Contrast / Brightness / Sharpness / Colour / Tint (G/R)

Your television has several setting options for picture quality control.

- NOTE
 - In analogue TV, AV modes of the PAL system, the Tint (G/R) function is not available.
 - When connecting a PC, you can only make changes to Backlight Contrast, Brightness and Sharpness.
 - Settings can be adjusted and stored for each external device connected to the TV.
 - Lowering picture brightness reduces power consumption.

Picture Size



Set the various picture options such as picture size and aspect ratio.

- The available items may differ depending on the selected mode.
- Depending on the input source, the picture size options may vary.
- Picture Size TOOLS: 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.

Auto Wide (New Zealand and Singapore available): Automatically adjusts the picture size to the **16:9** aspect ratio.

16:9: Sets the picture to 16:9 wide mode.

Wide Zoom: Magnifies the picture size more than 4:3.

Adjusts the Position by using ▲, ▼ buttons.

Zoom: Magnifies the 16:9 wide pictures vertically to fit the screen size.



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 centre of the screen may cause image retention (screen burn) which are not covered by the warranty.

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

Smart View 1 for LED 5 series: Reduces original screen by 50%.

Smart View 2 for LED 5 series: Reduces original screen by 25%.

MOTE

- Smart View 1 is enabled only in HDMI mode.
- Smart View 2 is enabled only in DTV and HDMI modes.
- The picture size can vary depending on the input resolution when content is played using Videos under Media Play.
- Zoom/Position: Adjust the picture size and position. It is only available in Zoom.
- Position: Adjust the picture position. It is only available in Screen Fit or Wide Zoom.



- After selecting Screen Fit in HDMI (1080i / 1080p) or Component (1080i / 1080p) mode, you may need to centre the picture :
 - 1. Select the Position. Press the ENTER button.
 - **2.** Press the \triangle , ∇ , \triangleleft or \triangleright button to move the picture.
- If you want to reset the position you adjusted, select Reset in the Position screen. The picture will be set to its default position.
- If you use the **Screen Fit** function with HDMI 720p input, 1 line will be cut at the top, bottom, left and right as in the overscan function.
- 4:3 Screen Size: Available only when picture size is set to Auto Wide. You can determine the desired picture size at the 4:3 WSS (Wide Screen Service) size or the original size. Each European country requires different picture size.



You can watch the TV tuner and one external video source simultaneously. PIP (Picture-in-Picture) does not function in the same mode.

NOTE

- If you turn the TV off while watching in PIP mode, the PIP window will disappear.
- You may notice that the picture in the PIP window becomes slightly unnatural when you use the main screen to view a game or karaoke.

PIP settings

Main picture	Sub picture
Component, HDMI	TV

- PIP: Activate or deactivate the PIP function.
- Channel: Select the channel for the sub-screen.
- Size: Select a size for the sub-picture.
- Position: Select a position for the sub-picture.
- Sound Select: You can choose the desired sound in PIP mode.

- □ Changing the Picture Options
- Advanced Settings
 - $\fbox{MENU} \longrightarrow \textbf{Picture} \rightarrow \textbf{Advanced Settings} \rightarrow \textbf{ENTER} \raiset{\raise}$

(available in **Standard / Movie** mode)

You can adjust the detailed setting for the screen including colour and contrast.

- When connecting a PC, you can only make changes to the White Balance and Gamma.
- Dynamic Contrast: Adjust the screen contrast.
- Black Tone: Select the black level to adjust the screen depth.
- Flesh Tone: Adjust the flesh tone colour.
- RGB Only Mode: Displays the Red, Green and Blue colour for making fine adjustments to the hue and saturation.

- Colour Space: Adjust the range of colours available to create the image.
- White Balance: Adjust the colour temperature for a more natural picture.
 R-Offset / G-Offset / B-Offset: Adjust each colour's (red, green, blue) darkness.

R-Gain / G-Gain / B-Gain: Adjust each colour's (red, green, blue) brightness.

Reset: Resets the White Balance to its default settings.

- Gamma: Adjust the primary colour intensity.
- Motion Lighting: Reduce power consumption by brightness control adapted motion.
 - Only available in **Standard** mode.
 - When changing a setting value of **Backlight**, **Brightness** or **Contrast**, **Motion Lighting** will be set to **Off**.

Picture Options



When connecting a PC, you can only make changes to the Colour Tone.

Colour Tone

Warm1 or Warm2 will be deactivated when the picture mode is Dynamic.

Settings can be adjusted and stored for each external device connected to an input on the TV.

- Digital Clean View: If the broadcast signal received by your TV is weak, you
 can activate the Digital Clean View feature to reduce any static and ghosting
 that may appear on the screen.
 - When the signal is weak, try other options until the best picture is displayed.

Auto Visualisation: When changing analogue channels, displays signal strength.

- Only available for analogue channels.
- When the **INFO** button is pressed, the signal strength bar is displayed.
- Mhen bar is green, you are receiving the best possible signal.
- MPEG Noise Filter: Reduces MPEG noise to provide improved picture quality.

- HDMI Black Level: Selects the black level on the screen to adjust the screen depth.
 - Available only in **HDMI** mode (RGB signals).
- Film Mode: Sets the TV to automatically sense and process film signals from all sources and adjust the picture for optimum quality.
 - Available in external input mode which supports SD (480i / 576i) and HD (1080i) except in when connected to a PC.
 - If the screen does not seem natural, change its option to Off / Auto1 / Auto2 in Film Mode.
- Analog Clean View (analogue channels only): Reduces diagonal noise in picture caused by the crosstalk of signals.
- LED Clear Motion: Removes drag from fast scenes with a lot of movement to provide a clear picture.
 - It will be deactivated when the picture mode is set to Natural.
 - The screen may become slightly darker when you play LED Clear Motion.

Picture Off



The screen is turned off but the sound remains on. Press any button except volume button to turn on the screen.

Reset Picture



Resets your current picture mode to its default settings.

- ☐ Changing the Preset Sound Mode
- Sound Mode
 - $\begin{tabular}{ll} \hline \raise MENU & \longrightarrow Sound & \longrightarrow Sound & Mode & \longrightarrow ENTER \\ \hline \raise & \longrightarrow & \blacksquare \\ \hline \end{tabular}$
 - Standard: Selects the normal sound mode.
 - Music: Emphasizes music over voices.
 - Movie: Provides the best sound for movies.
 - Clear Voice: Emphasizes voices over other sounds.
 - Amplify: Increase the intensity of high-frequency sound to allow a better listening experience for the hearing impaired.
 - If Speaker Select is set to External Speaker, Sound Mode is disabled.

- Adjusting Sound Settings
- Sound Effect

(standard sound mode only)

- $\begin{tabular}{ll} \hline \raise MENU & \longrightarrow Sound & \longrightarrow Sound & Effect & \longrightarrow ENTER \\ \hline \raise & \longrightarrow & \blacksquare \\ \hline \end{tabular}$
- DTS TruSurround

This function provides a virtual 5.1 channel surround sound experience through a pair of speakers using HRTF (Head Related Transfer Function) technology.

DTS TruDialog

This function allows you to increase the intensity of a voice over background music or sound effects so that dialogue can be heard more clearly.

Equaliser

Use Equaliser to customize sound setting for each speaker.

Balance: Adjusts the balance between the right and left speaker.

100Hz / 300Hz / 1kHz / 3kHz / 10kHz (Bandwidth Adjustment): Adjusts the level of specific bandwidth frequencies.

Reset: Resets the equaliser to its default settings.



Speaker Settings

- Speaker Select TOOLS #

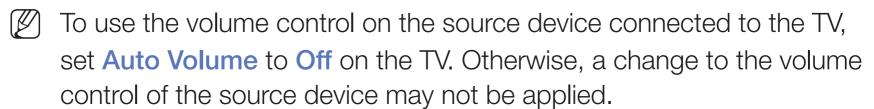
A sound echo may occur due to a difference in decoding speed between the main speaker and the audio receiver. In this case, set the TV to **External Speaker**.

- When Speaker Select is set to External Speaker, the volume and MUTE buttons will not operate and the sound settings will be limited.
- When Speaker Select is set to External Speaker.
 - TV Speaker: Off, External Speaker: On
- When Speaker Select is set to TV Speaker.
 - TV Speaker: On, External Speaker: On
- If there is no video signal, both speakers will be mute.

Auto Volume

To equalize the volume level on each channel, set to Normal.

Night: This mode provides an improved sound experience compared to Normal mode, making almost no noise. It is useful at night.



Additional Settings



- DTV Audio Level (MPEG / HE-AAC) (digital channels only): This function allows you to reduce the disparity of a voice signal (which is one of the signals received during a digital TV broadcast) to a desired level.
 - According to the type of broadcast signal, MPEG / HE-AAC can be adjusted between -10dB and 0dB.
 - To increase or decrease the volume, adjust between the range 0 and -10 respectively.

 Digital Audio Out: Digital Audio Out is used to provide digital sound, reducing interference going to speakers and various digital devices such as a DVD player.

Audio Format: You can select the Digital Audio output format. The available Digital Audio output format may differ depending on the input source.

By connecting to 5.1ch speakers in a Dolby Digital setup, maximize your interactive 3D sound experience.

Audio Delay: Correct audio-video sync problems, when watching TV or video, and when listening to digital audio output using an external device such as an AV receiver (0ms ~ 250ms).

- Dolby Digital Comp (Line / RF): This function minimizes signal disparity between a dolby digital signal and a voice signal (i.e. MPEG Audio, HE-AAC, ATV Sound).
 - Select Line to obtain dynamic sound, and RF to reduce the difference between loud and soft sounds at night time.

Line: Set the output level for signals greater or less than -31dB (reference) to either -20dB or -31dB.

RF: Set the output level for signals greater or less than -20dB (reference) to either -10dB or -20dB.

Reset Sound

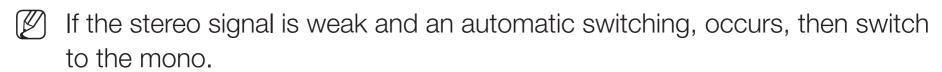


Reset all sound settings to the factory defaults.

☐ Selecting the Sound Mode TOOLS ☐

When you set to **Dual I-II**, the current sound mode is displayed on the screen.

	Audio Type	Dual I-II	Default
A2 Stereo	Mono	Mono	Automatic change
	Stereo	Stereo ↔ Mono	
	Dual	Dual I ↔ Dual II	Dual I
NICAM Stereo	Mono	Mono	Automatic change
	Stereo	Mono ↔ Stereo	
	Dual	Mono → Dual I	Dual I



- Only activated in stereo sound signal.
- Only available when the **Source** is set to **TV**.

- Executing initial setup
- Setup

Configure the channels and the time when setting up the TV for the first time or when resetting the unit.

Execute the initial setup following instructions that the TV guides.

- □ Setting the Time
- Time
 - $\begin{tabular}{ll} \hline \begin{tabular}{ll} \hline \endth \endth \endth \endth \endth \endth \endth \endth \endth \$

The current time will appear every time you press the **INFO** button.

- Clock: Setting the clock is for using various timer features of the TV.
 If you disconnect the power cord, you have to set the clock again.
 Clock Mode: Set up the current time manually or automatically.
 - Auto: Set the current time automatically using the time from a digital channel.
 - The aerial must be connected in order to set the time automatically.

- Manual: Set the current time manually.
- Depending on the broadcast station and signal, the auto time set up may not be correct. In this case, set the time manually.

Clock Set: Set the Date and Time.

- Available only when Clock Mode is set to Manual.
- You can set the **Date** and **Time** directly by pressing the number buttons on the remote control.

Time Zone (Australia only): Select your time zone.

This function is only available when the **Clock Mode** is set to **Auto**.

Using the Sleep Timer

- $\textcircled{\begin{tabular}{ll} \raggreenth{ MENU \square} \to System \to Time \to Sleep \ Timer \to ENTER \end{tabular} }$
- Sleep Timer TOOLS: Automatically shuts off the TV after a preset period of time. (30, 60, 90, 120, 150 and 180 minutes).
 - Use the ▲/▼ buttons to select a period of time, and then press ENTER ♣. To cancel the Sleep Timer, select Off.

□ Setting the On / Off Timer

 $\textcircled{\begin{tabular}{ll} \raggreenthat{P}{ll} \ra$

On Timer: You can set up three separate On Timer configurations. (On Timer 1, On Timer 2, On Timer 3)

Setup: Select Off, Once, Everyday, Mon~Fri, Mon~Sat, Sat~Sun or Manual to set at your convenience. If you select Manual, you can set up the day you want to activate the timer.

 \nearrow The \checkmark mark indicates the day you've selected.

Time: Set the hour and minute.

Volume: Set the desired volume level.

Source: To select the source of the content that will play when the TV turns on. You can:

- Select TV and have the TV display a specific air channel.
- Select USB and have the TV play back photo or audio files from a USB device.
- Select a source on your TV that you have connected a set-top box to, and have the TV display a channel from the set-top box.
- The USB device must be connected to your TV before you can select USB.

- If you select a source other than TV or USB, you must:
 - Have a cable or satellite set-top box attached to that source
 - Set the set-top box to the channel you want to watch when the TV goes on
 - Leave the set-top box turned on.
- When you select a source other than TV or USB, the Aerial and Channel options will disappear.

Aerial (when the Source is set to TV): Select ATV or DTV.

Channel (when the Source is set to TV): Select the desired channel.

Music / Photo (when the Source is set to USB): Select a folder in the USB device containing music or photo files to be played when the TV is turned on automatically.

- If there is no music file on the USB device or the folder containing a music file is not selected, the timer function does not operate correctly.
- When there is only one photo file in the USB device, the slide show will not play.
- If a folder name is too long, the folder cannot be selected.
- Each USB you use is assigned its own folder. When using more than one
 of the same type of USB, make sure the folders assigned to each USB
 have different names.

- It is recommended that you use a USB memory stick and a multi card reader when using On Timer.
- The On Timer function may not work with USB devices with a built-in battery, MP3 players, or PMPs made by some manufacturers because these devices take a long time to be recognized.
- Off Timer: You can set up three separate Off Timer configurations. (Off Timer 1, Off Timer 2, Off Timer 3)

Setup: Select Off, Once, Everyday, Mon~Fri, Mon~Sat, Sat~Sun or Manual to set at your convenience. If you select Manual, you can set up the day you want to activate the timer.

 $ot\!\!\!\!/$ The $ot\!\!\!\!/$ mark indicates the day you've selected.

Time: Set the hour and minute.

- Economical Solutions
- Eco Solution
 - $\fbox{MENU} \longrightarrow System \rightarrow Eco\ Solution \rightarrow ENTER \ref{eq:solution}$
 - Energy Saving: This adjusts the brightness of the TV in order to reduce power consumption.
 - Eco Sensor (Off / On) For LED 5 series: To enhance your power savings; the picture settings will automatically adapt to the light in the room.
 - If you adjust the Backlight, the Eco Sensor will be set to Off.
 - Min. Backlight: When Eco Sensor is On, the minimum screen brightness can be adjusted manually.
 - If Eco Sensor is On, the display brightness may change (become slightly darker or brighter) depending on the surrounding light intensity.

- No Signal Power Off: To avoid unnecessary energy consumption, set how long you want the TV to remain on if it's not receiving a signal.
 - 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.
 - If the Auto Power Off option is set to Off, the TV will stay on even if no operations are performed on the TV.

- Other Features
- Auto Protection Time

 - Auto Protection Time: 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.

General

$\textcircled{\begin{tabular}{ll} \ragged MENU \\ \hline \label{table System} \to \textbf{General} \to \textbf{ENTER} \\ \hline \end{tabular}$

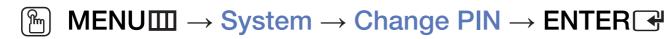
 Game Mode (Off / On): When connecting to a game console such as PlayStation™ or Xbox™, you can enjoy a more realistic gaming experience by selecting game mode.

MOTE

- Precautions and limitations for game mode
 - To disconnect the game console and connect another external device, set Game Mode to Off in the setup menu.
 - If you display the TV menu in Game Mode, the screen shakes slightly.

- Game Mode is not available in TV mode.
- After connecting the game console, set Game Mode to On.
 Unfortunately, you may notice reduced picture quality.
- If Game Mode is On:
 - Picture Mode is set to Standard and Sound Mode is set to Movie.
- Panel Lock: Lock or unlock all the keys on the panel.
- Boot Logo: Display Samsung logo when the TV is turned on.

Change PIN



Change your password required to set up the TV.

The PIN input screen appears before the setup screen.

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

DivX® Video On Demand



Shows the registration code authorized for the TV. If you connect to the DivX web site and register with 10-digit registration code, you can download the VOD activation file.

Once you play it using Videos, the registration is completed.

For more information on DivX® VOD, visit http://vod.divx.com.

☐ Using the Source List

Source List

- $\begin{tabular}{ll} \hline \raggreent \hline \raggre$
- When you press the **SOURCE** button, **Source** screen will be displayed at once.
- You can only choose external devices that are connected to the TV. In **Source**, connected inputs are highlighted.
- For the detailed information, refer to "Changing the Input Source" in User Manual.

□ Connecting a USB Device

- **1.** Turn on your TV.
- 2. Connect a USB device containing photo, music and movie files to the USB port on the side of the TV.
- **3.** When USB is connected to the TV, popup window appears. You can select the **Photos**, **Videos** or **Music** directly.

- It might not work properly with unlicenced multimedia files.
- Need-to-Know List before using Media Contents
 - MTP (Media Transfer Protocol) is not supported.
 - Supported file systems are FAT and NTFS.
 - Certain types of USB Digital camera and audio devices may not be compatible with this TV.
 - Media Contents only supports sequential jpeg format.
 - Media Contents only supports USB Mass Storage Class (MSC) devices.
 MSC is a Mass Storage Class Bulk-Only Transport device. Examples of MSC are Thumb drives, Flash Card Readers (USB HUB are not supported). Devices should be connected directly to the TV's USB port.

- Before connecting your device to the TV, please back up your files to prevent them from damage or loss of data. SAMSUNG is not responsible for any data file damage or data loss.
- The HDD (Hard Disk Drive) connected to USB is not supported.
- Do not disconnect the USB device while it is loading.
- The higher the resolution of the image, the longer it takes to display on the screen.
- The maximum supported JPEG resolution is 15360 x 8640 pixels.
- For unsupported or corrupted files, the "Not Supported File Format" message is displayed.
- The scene search and thumbnail functions are not supported in the Videos.

- MP3 files with DRM that have been downloaded from a non-free site cannot be played. Digital Rights Management (DRM) is a technology that supports the creation, distribution and management of the content in an integrated and comprehensive way, including the protection of the rights and interests of the content providers, the prevention of the illegal copying of contents, as well as managing billings and settlements.
- PTP connection mode is fully available only with digital cameras. When connecting a smartphone or tablet to the TV using PTP mode, it may not be recognized.
- A USB device that requires high power (more than 500mA or 5V) may not be supported.
- If the TV has been no input during time set in Auto Protection Time, the screen saver will run.

- The power-saving mode of some external hard disk drives may be released automatically when connected to the TV.
- If a USB extension cable is used, the USB device may not be recognized or the files on the device may not be read.
- 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 the PC, format the device and check the connection.
- If a file deleted from the PC is still found when Media Contents is run, use the "Empty the Recycle Bin" function on the PC to permanently delete the file.
- If the number of files and folders saved on a USB storage device is approximately over 4000, the files and folders may not appear and some folders may not be opened.

Disconnecting a USB Device

- 1. Press the **SOURCE** button.
- 2. Select a desired USB device, and then press the **TOOLS** button. The **Tools** menu appears.
- 3. Select Disconnect USB Device, and then wait until the selected USB device is disconnected. You can remove a USB device from the TV.
- To remove a USB device from the TV, we recommend use **Disconnect USB Device** function.

□ Using the Media Contents

 $\textcircled{MENU} \longrightarrow \textbf{Applications} \rightarrow \textbf{Media Play} \rightarrow \textbf{ENTER} \textcircled{+}$

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

- 1. Press the **MEDIA.P** button.
- 2. Press ◀/▶ button to select desired menu (Photos, Videos, Music), then press the ENTER → button.
- Press ◄/► button to select desired device, then press the ENTER → button again.
- **4.** Press the $\triangle/\nabla/\blacktriangleleft/\triangleright$ button to select the desired file in the list, then press the **ENTER** button or \triangleright (Play) button.

Playing the selected files

- Press the ▲ button to select Options at the top of each main screen and select Play Selected.
- 2. Select the desired files.
 - The check box appears to the left of the selected files.
 - Press ENTER button again to deselect the file.
- 3. Press the ▲ button to select Play.
 - You can select or deselect all files pressing the Select All / Deselect All.

☐ Playing the Photos / Videos / Music

During playing a file, press the $\triangle/\nabla/\blacktriangleleft/\triangleright$ button to select the desired menu.

- When the option menu is not displayed, press the **TOOLS** button or **ENTER** button.
- You can also use ►/II/ ►/ buttons on the remote control during playback.
- If you press the **INFO** button during playback, you can view the playback information.

Playback menu

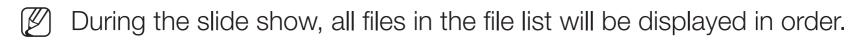
Button	Operation	Photos	Videos	Music
(/)	Previous / Next	•		
> / I	Start Slide Show / Stop Slide Show	•		
	Play / Pause	Mini Player*	•	•
M / M	Previous / Next	Mini Player*	•	•
« / »	Rewind / Fast forward		•	•

^{*}When setting the Background Music to Mini Player in Photos, these buttons appear.

Setting menu

Photos

Button	Operation		
	Slideshow Settings	You can set the Speed and Effects during the slide show.	
(Q)	Zoom	You can zoom into images in full screen mode.	
[O]	Rotate	You can rotate images in full screen mode.	
	Background Music / Mini Player	You can set background music when watching a slide show. / You can control simple playback menus.	
\$	Settings	Picture Mode / Sound Mode: You can adjust the picture or sound setting.	
		Information: You can see detailed information about the played file.	





During the slide show, you can adjust the slide show speed using ◄ (REW) or ► (FF) button.

Supported Photo Formats

For the details, refer to "Specifications" in User Manual.

Videos

Button	Operation		
Q	Search	Title Search: You can move the other file directly.	
		Time Search: You can search the video using ◀ and ▶ button at one minute interval or entering the number directly.	
		It may not be supported depending on the input source.	
(\$)	Repeat Mode	You can play movie files repeatedly.	
	Picture Size	You can adjust the picture size to your preference.	
\$	Settings	Subtitle Settings: You can play the video with subtitles. This function only works if the subtitles are the same file name as the video.	
		Audio Language: You can change the audio language if the video has more than one language.	
		Picture Mode / Sound Mode: You can adjust the picture or sound setting.	
		Information: You can see detailed information about the played file.	

- If video time information is unknown, play time and progress bar are not displayed.
- In this mode, you can enjoy movie clips contained on a Game, but you cannot play the Game itself.
- Supported Subtitle / Video Formats
 - For the details, refer to "Specifications" in User Manual.

Music

Button	Operation		
(\$)	Repeat	You can play music files repeatedly.	
[x]	Shuffle	You can play the music randomly.	
	Sound Mode	You can adjust the sound setting.	

- Only displays the files with supported music 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 music files, adjust the **Equaliser** in the **Sound** menu. (An over-modulated music file may cause a sound problem.)
- Supported Music Formats
 - For the details, refer to "Specifications" in User Manual.

Setting the Encoding language

Set the encoding language if the text is not supported.

- Press the ▲ button to select Options at the top of music main screen and select Encoding.
- 2. Select the desired encoding language.

- ☐ Viewing the e-Manual
- e-Manual
 - $\textcircled{MENU} \longrightarrow \textbf{Support} \rightarrow \textbf{e-Manual} \rightarrow \textbf{ENTER} \clubsuit$

You can read the introduction and instructions about the TV features stored in your TV.

For the detailed information about e-Manual Screen, refer to "How to use the e-Manual" in User Manual.

- □ Using the Self Diagnosis
- Self Diagnosis

Self Diagnosis might take few seconds, this is part of the normal operation of the TV.

- Picture Test: Use to check for picture problems.
- Sound Test: Use the built-in melody sound to check for sound problems.
 - If you hear no sound from the TV's speakers, before performing the sound test, make sure **Speaker Select** is set to **TV Speaker** in the **Sound** menu.
 - The melody will be heard during the test even if **Speaker Select** is set to **External Speaker** or the sound is muted by pressing the **MUTE** button.

- Signal Information (digital channels only): HDTV channel's reception quality is either perfect or the channels are unavailable. Adjust your aerial to increase signal strength.
- Reset: Reset all settings to the factory defaults except network settings.
 - The PIN input screen appears before the setup screen.
 - Enter your 4-digit PIN. Change the PIN using the Change PIN option.

- Updating the Software
- Software Update

The **Software Update** menu lets you upgrade your TV's software to the latest version.

Current Version: This is the software version already installed in the TV.

When software is upgraded, video and audio settings you have made will return to their default settings. We advise you to write down your settings so that you can easily reset them after the upgrade.

Update now

- By USB: Insert a USB drive containing the firmware upgrade file, downloaded from "www.samsung.com" into the TV.
 - Please be careful not to disconnect the power or remove the USB drive until upgrades are complete. The TV will be turned off and on automatically after completing the firmware upgrade.
- Auto update: A manual upgrade will be automatically performed at selected time. Since the power of the unit is turned on internally, the screen may be turned on slightly for the product. This phenomenon may continue for more than 1 hour until the software upgrade is complete.

- □ Changing the Use Mode
- Use Mode
 - $\begin{tabular}{ll} \hline \ragged MENU & \longrightarrow Support \rightarrow Use\ Mode \rightarrow ENTER \\ \hline \ragged & \rightarrow \end{tabular}$

Select the **Use Mode** suitable for your place. We strongly recommend you select **Home Use**.

- Home Use: Home Use is the default setting.
- Store Demo: Store Demo is for retail environments only. If you select Store Demo, some functions will not work, and the picture settings will be reset every 30 minutes.

- Viewing the Contact Samsung
- 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 centres, and how to download products and software.

- ☐ Using the Sports Mode
- Sports Mode

This mode provides optimized condition for watching sports games.

- When the **Sports Mode** is **On**, the picture and sound modes are set to **Stadium** automatically.
- If you turn the TV off while watching **Sports Mode**, the **Sports Mode** will be disable.