

Caption

(On-Screen Text Messages)

- **Caption:** You can switch the caption function on or off. If captions are not available, they will not be displayed on the screen.

☞ The **Caption** feature does not work in **Component** or **HDMI** mode.

- **Caption Mode:** You can select the desired caption mode.

Default / CC1-CC4 / Text1-Text4: (analog channels only) The Analog Caption function operates in either analog TV channel mode or when a signal is supplied from an external device to the TV. (Depending on the broadcasting signal, the Analog Caption function may or may not work with digital channels.)

Default / Service1-Service6 / CC1-CC4 / Text1-Text4: (digital channels only) The Digital Captions function works with digital channels.

☞ **Service1-6** may not be available in digital caption mode depending on the broadcast.

- **Digital Caption Options:** (digital channels only)

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

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

Foreground Color: Options include Default, White, Black, Red, Green, Blue, Yellow, Magenta and Cyan.

You can change the color of the 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 Mode**.

☞ The Foreground and Background cannot be set to have the same color.

Boot Logo: Enable/disable displaying the logo while the TV starts up.

Eco Solution

- **Energy Saving:** This adjust the brightness of the TV in order to reduce power consumption. If you select **Picture Off**, the screen is turned off, but the sound remains on. Press any button except volume button to turn on the screen.

- **Eco Sensor:** 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 in most cases) depending on the surrounding light intensity.

- **No Signal Power Off :** Sets how quickly the TV switches to standby mode, if no picture is being received.

☞ Disabled when the PC is in power saving mode.

- **Auto Power Off:** The TV will be automatically turned off when no user operation is received for 4 hours.

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.

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 problems.

- **Signal Strength:** (digital channels only) An HD channel's reception 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 software.

Media Play

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



❑ Using the Media Play Menu

- Press the MENU button. Press the ▲ or ▼ button to select **Applications**, then press the ENTER [↵] button.

- Press the ▲ or ▼ button to select **Media Play (USB)**, then press the ENTER [↵] button.

- Press the ◀ or ▶ button to select an icon (**Videos**, **Music**, **Photos**, **Settings**), then press the ENTER [↵] button.

It might not work properly with unlicensed multimedia files.

☞ Need-to-Know List before using **Media Play (USB)**

- Supported file systems are FAT and NTFS.
- Certain types of USB Digital camera and audio devices may not be compatible with this TV.

- **Media Play** only supports USB Mass Storage Class (MSC) devices. MSC is a Mass Storage Class Bulk-Only Transport device. Examples of MSC are Thumb drives and Flash Card Readers. Devices should be connected directly to the TV's USB port. USB HDD is not supported.

- Before connecting your device to the TV, please back up your files to prevent them from damage or loss of data. SAMSUNG is not responsible for any data file damage or data loss.

- A USB device that requires high power (more than 0.5A) may not be supported.

- Do not disconnect the USB device while it is loading.
- The higher the resolution of the image, the longer it takes to display on the screen.

- The maximum supported JPEG resolution is 15360 x 8640 pixels.
- If a file is corrupted or the TV does not support the file type, the "Not Supported File Format" message appears.

- The TV cannot play MP3 files with DRM that have been downloaded from a for-pay site. Digital Rights Management (DRM) is a technology that supports the creation, distribution, and management of digital content in an integrated and comprehensive way, including protecting the rights and interests of content providers, preventing illegal copying of contents, and managing billings and settlements.

- PTP device is not supported.
- If an over-power warning message is displayed while you are connecting or using a USB device, the device may not be recognized or may malfunction.

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

- The power-saving mode of some external hard disk drives may be released automatically when you 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 file you deleted from the PC is still found when you run **Media Play**, use the "Empty the Recycle Bin" function on the PC to permanently delete the file.

- **Photos** only supports sequential jpeg format.
- The scene search and thumbnail functions are not supported in the **Videos**.

- 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.

- 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.

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Videos

- Press the ◀/▶ buttons to select **Videos**, then press the ENTER [↵] button in the **Media Play** menu.

- Press the ◀/▶/▲/▼ buttons to select the desired video in the file list.

- 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 ◀/▶ buttons.

- 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	.txt
SAM	.srt
SubRip	.srt
SubViewer	.sub
Micro DVD	.sub or .txt
SubStation Alpha	.ssa
Advanced SubStation Alpha	.ass

- Internal

Name	Container	Format
XSub	.AVI	Picture Format
SubStation Alpha	MOV	Text Format
Advanced SubStation Alpha	MOV	Text Format
SubRip	MOV	Text Format
MPEG-4 Timed text	MP4	Text Format

- Supported Video Formats

File Extension	Container	Video Codec	Resolution	Frame rate(fps)	Bit rate(Mbps)	Audio Codec
*.mp4	MP4	DVX.11 / DVX4 / DVX5 / DVX6	1920x1080	6-30	20Mbps	MP3 / AAC / ADPCM / AAC
		H264	1920x1080	6-30	20Mbps	
		VC-1	1920x1080	6-30	20Mbps	
		MPEG2	640x480	6-30	10Mbps	
** .avi / .rmvb *	AVI MOV	DVX.11 / DVX4 / DVX5 / DVX6	1920x1080	6-30	20Mbps	MP3 / AAC / LPCM / ADPCM / AAC / DTS
MPEG2 / VC-1		1920x1080	6-30	20Mbps		
H264		1920x1080	6-30	20Mbps		
MPEG2		640x480	6-30	10Mbps		
** .asf / .wmv *	ASF	DVX.11 / DVX4 / DVX5 / DVX6	1920x1080	6-30	20Mbps	MP3 / AAC / LPCM / ADPCM / AAC / WMA / WMA Pro
MPEG2 / VC-1		1920x1080	6-30	20Mbps		
H264		1920x1080	6-30	20Mbps		
MPEG2		640x480	6-30	10Mbps		
** .ts / .tp *	TS	H264	1920x1080	6-30	20Mbps	
		MPEG2 / TS	1920x1080	6-30	20Mbps	AAC / AAC / MP3 / DTS
** .avi / .mpg / .mpeg / .wmv *	PS	H.264	1920x1080	6-30	20Mbps	AAC / AAC / MP3 / DTS
MPEG2		1920x1080	6-30	20Mbps		
H.264		1920x1080	6-30	20Mbps		
MPEG2		1920x1080	6-30	20Mbps		
*.3gp	3GPP	MPEG2 / H.264	1920x1080	6-30	20Mbps	MP3
		H.264	1920x1080	6-30	20Mbps	
		H.264	1920x1080	6-30	20Mbps	
*.dv	Raw formats	Sorenson H.263	1920x1080	6-30	20Mbps	MP3

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 10Mbps.

- Video content can not be played, if there are many contents in one file.

Video Decoder	Audio Decoder
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Supports up to H.264 Level 4.1
H.264 P/M/4 / A/S/0 / VC-1 / VC-1 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.

Supports up to WMA7, 8, 9, S/D2,