



- 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 billing and settlements.
- PTP devices are 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 period set in **Auto Protection Time**, the ScreenSaver will run.
- The power-saving mode of some external hard disk drives may be released automatically when 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 USB device connected to the TV is not recognized, the list of files on the device is corrupted, or a file in the list is not played, connect the USB device to a PC, format the device, and check the connection.
- 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 the sequential jpeg format.
- The Videos option does not support the scene search and thumbnail functions.
- If the number of files and folders saved on a USB storage device is over approximately 4000, the files and folders may not appear and some folders may not open.
- The maximum number of files the TV can display, including sub folders, in one folder of a USB storage device is 2000.
- The media may not play smoothly if you use a USB device rated lower than USB 2.0.

## Video

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

## Supported Video Formats

File Extension	Container	Video Codec	Resolution	Frame rate (fps)	Bit rate (Mbps)	Audio Codec
*.mp4	MP4	Divx3.11.4 v.5.1.6.0	1920x1080	6-30	30Mbps	MPS / ADPCM / AAC
		H264	1920x1080	6-30	30Mbps	
		AVC	1920x1080	6-30	30Mbps	
		MJPEG	640x480	6-30	10Mbps	
**_avi *_m1v	AVI	Divx3.11.4 v.5.1.6.0	1920x1080	6-30	30Mbps	MPS / ACS / LPCM / ADPCM / DTS / Com*
		MPEG2 SP	1920x1080	6-30	30Mbps	
		H264	1920x1080	6-30	30Mbps	
		MJPEG	640x480	6-30	10Mbps	
**_asf *_wmv	ASF	Divx3.11.4 v.5.1.6.0	1920x1080	6-30	30Mbps	MPS / ACS / LPCM / ADPCM / WMA / AAC / DTS / Com*
		MPEG2 SP	1920x1080	6-30	30Mbps	
		H264	1920x1080	6-30	30Mbps	
		MJPEG	640x480	6-30	10Mbps	
**_ts *_h264 *_m2ts*	TS	H.264 BPS	1920x1080	6-30	30Mbps	MPS / DTS / HE-AAC
		H.264 BPS	1920x1080	6-30	30Mbps	
**_dat *_mpg *_mpeg *_vod*	PS	MPEG1	1920x1080	24/25/30	30Mbps	ACS / MPS / LPCM / AAC
		MPEG2	1920x1080	24/25/30	30Mbps	
*_3gp	3GPP	MPEG4 SP	1920x1080	6-30	30Mbps	
		H.264	1920x1080	6-30	30Mbps	
*_tv	H.264 formats	H.264	1920x1080	6-30	30Mbps	
		Sorenson	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 Supported Video Formats table.
- If the Index Table contains an error, the Seek (Jump) function will not work.
- The menu may take longer to appear if the video's bit rate exceeds 10Mbps.
- Video content may not play if there is too much content 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.
Below 1280 x 720: 60 frame max Above 1280 x 720: 30 frame max
H.263 is not supported.
GMC is not supported.

Audio Decoder
Supports up to WMA7, 8, 9 STD, 9 PRO, and 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

- In the **Media Play** menu, press the ◀/▶ buttons to select **Music**, and then press the ENTER button.
- Press the ◀/▶/▲/▼ buttons to select the desired Music in the file list.
- Press the ENTER button or [Play] button.
  - During music playback, you can search using the ◀/▶ buttons.
  - [REW] (◀) and [FF] (▶) buttons do not function during play.
  - Media Play only displays files with MP3 file extensions. 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.)

## Photos

- In the **Media Play** menu, press the ◀ or ▶ button to select **Photos**, and then press the ENTER button.
- Press the ◀/▶/▲/▼ buttons to select a photo in the file list.
- 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 a slide show.
    - All files in the file list section will be displayed in the slide show.
    - During the slide show, files are displayed in order.
    - During the slide show, you can adjust the slide show speed using [REW] (◀) or [FF] (▶) button.
    - You can move to other files using the ◀ or ▶ button.
    - Media Play** can play Music files automatically during a Slide Show if **Background Music** is set to **On**.
    - You cannot change the **Mode** in **Background Music** until the **Background Music** file has finished loading.

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

## Other Restrictions

- CMYK and YCKC color space JPEGs are not supported.

## Playing Multiple Files

- Playing selected video/music/photo files**
  - On the File List screen, highlight a file, and then press the Yellow button on your remote.
  - Repeat Step 1 to select multiple files.
    - NOTE
      - A ✓ mark appears to the left of the selected files.
      - To cancel a selection, press the Yellow button again.
      - To deselect all selected files, press the TOOLS button, select **Deselect All**, and then the ENTER button.
  - Press the TOOLS button, select **Play Folder**, and then press the ENTER button.
- Playing a video/music/photo folder**
  - With the folders on your USB device displayed, use the ◀/▶/▲/▼ buttons to highlight a folder.
  - Press the TOOLS button, select **Play Folder**, and then press the ENTER button.

## Media Play - Additional Functions

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

## Settings

- Using the Setup Menu**
  - DivX® Video On Demand**: Shows the registration code authorized for the TV. If you connect to the DivX web site and register with the 10-digit registration code, you can download the VOD activation file. Once you run the file using Media Play, the registration is completed.
  - For more information on DivX® VOD, visit "http://vod.divx.com".
- Information**: Select to view information about the connected USB device.

## Other Information

- Preparing before installing Wall-Mount
  - for 40", 50" models

- To install a wall-mount from another manufacturer, use the Holder-Ring.
- The product shape may differ depending on the model.

## Installing the Wall Mount Kit

- The wall mount kit (sold separately) allows you to mount the TV on the wall.
- For detailed information about installing the wall mount, see the instructions provided with the wall mount kit. Contact a technician for assistance when installing the wall mount bracket. Samsung Electronics is not responsible for any damage to the product or injury to yourself or others if you elect to install the wall mount on your own.

## Wall Mount Kit Specifications (VESA)

- The wall mount kit is not supplied, but sold separately.
- Install your wall mount on a solid wall perpendicular to the floor. If you are attaching the wall mount to a wall made of building materials other than drywall, please contact your nearest dealer for information about the appropriate mounting hardware. If you install the TV on a ceiling or slanted wall, it may fall and result in severe personal injury.
- NOTE
  - Standard dimensions for wall mount kits are shown in the table below.
  - When purchasing our wall mount kit, a detailed installation manual and all parts necessary for assembly are provided.
  - Do not use screws that do not comply with the VESA standard screw specifications.
  - Do not use screws that are longer than the standard dimension or do not comply with the VESA standard screw specifications. Screws that are too long may cause damage to the inside of the TV set.
  - 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 cutouts fail to follow the product installation instructions.
  - Do not mount the TV at more than a 15 degree tilt.
  - Always have two people mount the TV on a wall.

Product Family	Tv size in inches	VESA screw hole specs (A * B in millimeters)	Standard Screw	Quantity
MAC	19-22	75 X 75	M4	4
	26-28	100 X 100		
	32-42	200 X 200		
	46-60	400 X 400	M8	



## Securing the TV to the Wall

- Caution:** Pulling, pushing, or climbing onto the TV may cause the TV to fall. In particular, ensure that your children do not hang over or dangle from 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 described below.

## To prevent the TV from falling

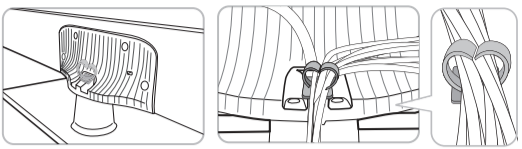
- TV Holder kits are sold separately. To purchase a TV Holder kit, contact Samsung Customer Care.
- Insert the screws into the wall brackets and firmly fasten them to the wall. Make sure the screws are firmly fixed to the wall.
- We strongly recommend you drive the screws into a stud.
- Insert the screws through the TV brackets, and then fasten the screws to the top VESA screw holes on the back of the TV.
- Connect the brackets on the TV and the brackets on the wall with a string string or cable, and then tie the string or cable tightly to the brackets.
- Verify all connections are properly secured. Periodically check the connections for any sign of fatigue or failure. If you have any doubt about the security of your connections, contact a professional installer.
- Install the TV close to the wall so that it does not fall.
- Connect the string or cable so that the brackets on the wall are at the same height or lower than the brackets on the TV. Untie the string or cable before moving the TV.

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

## Assembling the Stand Wire Holder

for 32" and above models



## Display Modes (HDMI/DVI Input)

Mode	Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)	1366 x 768	1920 x 1080
EM	720 x 480	31.469	70.067	28.322	-/+	✓	✓
	640 x 480	35.000	66.667	30.240	-/-	✓	✓
	832 x 624	49.728	74.001	47.284	-/-	✓	✓
	1152 x 870	68.811	75.002	100.000	-/-	✓	✓
	640 x 480	31.469	59.940	25.175	-/-	✓	✓
	640 x 480	31.861	72.809	31.500	-/-	✓	✓
	640 x 480	37.500	75.000	31.500	-/-	✓	✓
	800 x 600	37.875	60.317	40.000	+/+	✓	✓
	800 x 600	48.077	72.188	50.000	+/+	✓	✓
	800 x 600	48.875	75.000	49.500	+/+	✓	✓
	1024 x 768	48.363	60.004	65.000	-/-	✓	✓
	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	60.000	108.000	+/+	✓	✓
	1280 x 1024	79.708	75.025	135.000	+/+	✓	✓
	1366 x 768	47.712	59.790	85.500	+/-	✓	✓
	1440 x 900	50.000	59.867	108.000	+/-	✓	✓
	1600 x 900xH	60.000	60.000	108.000	+/-	✓	✓
	1680 x 1050	60.290	59.984	146.250	+/-	✓	✓
	1680 x 1080	67.500	60.000	148.500	+/-	✓	✓

## Caution of the cover-jack

- CAUTION:** These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock or fire hazard, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.
- The product shape may differ depending on the model.

- 9 -

- 10 -

- 11 -

- 12 -

<b>Sound Problem</b>	Perform the <b>Sound Test</b> to confirm your TV's audio is working properly. (Go to MENU - <b>Support</b> - <b>Self Diagnosis</b> - <b>Sound Test</b> ) If the audio is OK, the sound problem may be caused by the source or signal.
There is no sound or the sound is too low at maximum volume.	Check the volume control of the device (Cable/Sat Box, DVD, Blu-ray, etc.) connected to your TV.
The picture is good but there is no sound.	<ul style="list-style-type: none"> <li>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 if you have the cable box's audio output connected to your TV using an HDMI cable.</li> <li>Reboot the connected device by unplugging and then reconnecting the device's power cable.</li> </ul>
The speakers are making an inappropriate noise.	<ul style="list-style-type: none"> <li>Check the cable connections. Make sure a video cable is not connected to an audio input.</li> <li>For Antenna or Cable connections, check the signal information. A weak signal may cause sound distortion.</li> <li>Perform the <b>Sound Test</b> as explained above.</li> </ul>
<b>No Picture, No Video</b>	
The TV will not turn on.	<ul style="list-style-type: none"> <li>Make sure the AC power cord is securely plugged into the wall outlet and the TV.</li> <li>Make sure the wall outlet is working.</li> <li>Try pressing the POWER button on the TV to make sure the problem is not caused by the remote. If the TV turns on, refer to "Remote control does not work" below.</li> </ul>
The TV turns off automatically.	<ul style="list-style-type: none"> <li>Ensure the <b>Sleep Timer</b> is set to <b>Off</b> in the <b>Time</b> menu.</li> <li>If your PC is connected to the TV, check your PC power settings.</li> <li>Make sure the AC power cord is plugged into the wall outlet and TV securely.</li> <li>When you are watching a TV connected to an antenna or to a cable connection, the TV will turn off after 10 - 15 minutes if there is no signal.</li> </ul>
There is no picture/video.	<ul style="list-style-type: none"> <li>Check the cable connections. (Remove and reconnect all cables connected to the TV and external devices).</li> <li>Set your external devices (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.</li> <li>Make sure your connected devices are powered on.</li> <li>Be sure that the TV is set to the correct source by pressing the SOURCE button on the remote control.</li> <li>Reboot the connected device by unplugging and then reconnecting the device's power cable.</li> </ul>
<b>RF/Cable/Antenna Connection</b>	
The TV is not receiving all channels.	<ul style="list-style-type: none"> <li>Make sure the coaxial cable is connected securely.</li> <li>Run <b>Auto Program</b> to add available channels to the channel list.</li> <li>Go to MENU - <b>Channel</b> - <b>Auto Program</b> then select <b>Auto</b> and make sure the correct Cable TV signal type is set in the menu. There are 3 options: <b>STD</b>, <b>HFC</b>, and <b>RC</b>.</li> <li>Verify the antenna is positioned correctly.</li> </ul>
No Caption on digital channels.	<ul style="list-style-type: none"> <li>Check the Caption Setup menu. Try changing <b>Caption Mode Service</b> to <b>CC1</b>.</li> <li>Some channels may not have caption data.</li> </ul>
The picture is distorted: macroblock error, small black dots, pixelization.	<ul style="list-style-type: none"> <li>Compression of video contents may cause picture distortion, especially on fast moving pictures such as sports and action movies.</li> <li>A weak signal can cause picture distortion. This is not a TV problem.</li> </ul>
<b>Others</b>	
Purple/green rolling horizontal bars and buzzing noise from the TV speakers with Component cable connection.	<ul style="list-style-type: none"> <li>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.</li> </ul>
The picture will not display in full screen.	<ul style="list-style-type: none"> <li>HD channels will have black bars on either side of the screen when displaying up scaled SD (4:3) contents.</li> <li>Black bars on the Top &amp; Bottom will be shown on movies that have aspect ratios different from your TV.</li> <li>Adjust the picture size option on your external device or change the TV to full screen.</li> </ul>
The remote control does not work.	<ul style="list-style-type: none"> <li>Replace the remote control batteries. Make sure you install the new batteries with their polarity (+/-) correct.</li> <li>Clean the transmission window located on the top of the remote control.</li> <li>Try pointing the remote directly at the TV from 5-6 feet away.</li> </ul>
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.
A "Mode Not Supported" message appears.	Check the supported resolution of the TV and adjust the external device's output resolution accordingly. Refer to resolution settings in this manual.
<b>Caption</b> on the TV menu is greyed out.	<ul style="list-style-type: none"> <li>You cannot select <b>Caption</b> in the TV menu when watching content from a device connected via HDMI or Component.</li> <li><b>Caption</b> must be activated on the external device.</li> </ul>
There is a plastic smell from the TV.	This smell is normal and will dissipate over time.
<b>TV Signal Strength</b> is unavailable in the <b>Self Diagnosis</b> test menu.	This function is only available for digital channels received through an Antenna/RF/Coax connection.
TV is tilted to the right or left side.	Remove the stand base from the TV and reassemble it.
The <b>Channel</b> menu is greyed out (unavailable).	The <b>Channel</b> menu is only available when you select the TV source.
Your settings last after 30 minutes or every time the TV is turned off.	If TV is in the <b>Store Demo</b> mode, it will reset audio and picture settings every 30 minutes. Please change from <b>Store Demo</b> mode to <b>Home Use</b> mode using the <b>Plug &amp; Play</b> procedure. Press the SOURCE button to select TV mode, go to MENU -> <b>Setup</b> -> <b>Plug &amp; Play</b> -> ENTER [OK].
You have intermittent loss of audio or video.	Check the cable connections and reconnect them. Loss of audio or video can be caused by using overly rigid or thick cables. Make sure the cables are flexible enough for long term use. If mounting the TV to the wall, we recommend using cables with 90 degree connectors.

- 13 -