

## Switch 1.0 Release Notes

### Switch™

Telestream® Switch is a media playback, inspection and conversion tool for professionals. Switch is available in two versions: Switch Player (free) and Switch Pro (\$295).

- **Switch Player** includes playback and inspection of a wide variety of media files (DNxHD, HEVC and AC3 playback is watermarked). Export is watermarked and limited to 30 seconds or half the duration of the media file.
- **Switch Pro** includes full playback, inspection for all supported file formats and export capabilities. Switch Pro also includes iTunes export presets for creating asset-only iTunes store packages.

### System Requirements

- Operating System: OS X 10.8 or later.
- Architecture: 64-Bit Intel x86
- Display: Both standard and Retina displays are supported.

### Switch 1.0 Features

#### Media Playback

Switch has the playback control features of a professional player, such as: Fast forward and rewind, slow motion, as well as single-frame forward and back. Switch also supports playback of secondary audio files as well as SCC files.

#### Containers:

- AAC
- AC3\*
- AIFF
- AVC (AVC Elementary Stream)
- AVI (open DML)
- DV
- HEVC (HEVC Elementary Stream)\*
- GXF
- LXF
- MOV
- M1V (MPEG-1 Video Elementary Stream)
- M2V (MPEG-2 Video Elementary Stream)
- MP3 (MPEG Layer 1/2/3 Audio Elementary Stream)
- MP4 (ISO Based Media Format)
- MPG (MPEG-1 System Stream)
- MPS (MPEG-2 Program Stream)
- MTS (MPEG-2 Transport Stream)
- MXF (OP-1a; AS02, AS03, AS11)
- MXF (OP-Atom)

- SCC
- WAV

**Video Codecs:**

- Apple ProRes
- DNxHD\*
- DV 25
- DVCPro 25
- DVCPro 50
- DVCPro 100
- DVCPro HD
- H.263
- H.264
- H.265\*
- JPEG
- MPEG-1
- MPEG-2
- MPEG-4

**Audio Codecs:**

- AAC
- AC3\*
- Microsoft ADPCM
- MPEG Audio Layer 1,2,3
- IMA ADPCM
- G.711 aLaw
- G.711 uLaw
- G.726
- PCM

\*Note, due to royalties DNxHD, HEVC and AC3 playback is watermarked in Switch Player.

## **Media Inspection**

Switch enables inspection of container, video and audio codec properties, and subtitle assets.

### **Container information**

File name, location, size, type, duration, creation date, modified date, secondary audio, secondary SCC files, metadata

### **Video codec information**

Format, bit rate, subsampling, color space, locale, duration, frame rate, whether the file is interlaced or progressive, encoded size, clean aperture, pixel aspect ratio, display size and additional metadata

### **Audio codec information**

Per track: source file, channels, format

Per channel: speaker labels, source track

Additional information: bit rate, sample rate, locale, duration and additional metadata

## Media Edit and Export

In export mode, users can make changes to the file: Trim, scale or crop the video; change the aspect ratio and clean aperture; rearrange audio tracks; edit speaker assignments; add metadata; insert chapter markers; and add caption tracks. Video and Audio pass-through mode enables users to make non-encoding-related changes to media. For more in-depth details see below.

### Edit Details

#### Container:

Edit: file name, file type and metadata

#### Video:

Edit: format, color space, locale, trim, scale, crop, change the aspect ratio and clean aperture

#### Audio:

Edit: format, rearrange audio tracks, channels, edit speaker assignments, sample rate, and locale

Video and Audio pass-through mode enables users to make non-encoding related changes.

#### Subtitle\*:

Inspect your subtitle track

#### Time:

Set trim in-and-out points and add chapter markers\*

\*Note, export of SCC files and chapter markers are only supported as part of an iTunes store package

### Export formats

#### Containers:

- MOV
- SCC (only as part of an iTunes package export)

#### Video Codecs:

- Apple ProRes

#### Audio Codecs:

- PCM

### Export to iTunes

Switch contains an iTunes export option that creates a complete asset-only iTunes store package.

### Coming Features

- Full screen playback
- Switch for Windows
- Support for .ITT caption files
- Support for embedded closed captions
- Support for adding captions to file export
- Support for opening and displaying chapter markers in MOV files
- Support for adding chapters to exported movies
- Additional containers and codecs for export

### **Known Issues**

- HEVC support is experimental, please notify Telestream Desktop Support if you have an HEVC file that cannot play back in Switch
- Chapter order is not recalculated if the chapter time is changed manually using the timecode box and chapter time is set before/after another chapter
- Displayed position of captions is not adjusted for changes to CLAP
- When using SCC caption files, the first caption must be at zero timecode to be displayed in sync with the video
- Alpha channel is not passed on in transcoded exports
- 59.94 timecode is displayed in 29.97 with two frames per timecode sample