









| File format  | Codec               | Episode | Episode Pro | Episode Engine | Comment                                  |
|--|---------------------|---------|-------------|----------------|--|
| <b>Windows Media</b>                            |                     |         |             |                |  |
| WMV, ASF   | VC-1                | OUT     | OUT         | OUT            |  |
|  | WM9                 | IN*/OUT | IN*/OUT     | IN*/OUT        | *WMV7 and 8 through F4M component on Mac |
|  | WMA                 | IN/OUT  | IN/OUT      | IN/OUT         |  |
|  | WMA Pro             | IN/OUT  | IN/OUT      | IN/OUT         |  |
| <b>Flash</b>                                    |                     |         |             |                |  |
| FLV  | Flash 8 (VP6s/VP6e) | IN/OUT  | IN/OUT      | IN/OUT         |  |
| SWF  | Flash 8 (VP6s/VP6e) | IN/OUT  | IN/OUT      | IN/OUT         |  |
| MOV/MP4/F4V  | Flash 9 (H.264)     | IN/OUT  | IN/OUT      | IN/OUT         | F4V as extension to MP4                  |
| <b>WebM</b>                                     |                     |         |             |                |  |
| WebM   | VP8                 | OUT     | OUT         | OUT            |  |
|  | Vorbis              | OUT     | OUT         | OUT            |  |
| <b>3GPP</b>                                     |                     |         |             |                |  |
| 3GPP   | AAC                 | IN/OUT  | IN/OUT      | IN/OUT         |  |
|  | H.263               | IN/OUT  | IN/OUT      | IN/OUT         |  |
|  | H.264               | IN/OUT  | IN/OUT      | IN/OUT         |  |
|  | MPEG-4              | IN/OUT  | IN/OUT      | IN/OUT         |  |
| <b>3GPP2</b>   |                     |         |             |                |  |
| 3GPP2  | AAC                 | IN/OUT  | IN/OUT      | IN/OUT         |  |
|  | H.263               | IN/OUT  | IN/OUT      | IN/OUT         |  |
|  | H.264               | IN/OUT  | IN/OUT      | IN/OUT         |  |
|  | MPEG-4              | IN/OUT  | IN/OUT      | IN/OUT         |  |
| <b>MPEG Elementary Streams</b>   |                     |         |             |                |  |
| MPEG-1 Elementary Stream   | MPEG-1 (video)      | IN/OUT  | IN/OUT      | IN/OUT         |  |
| MPEG-2 Elementary Stream   | MPEG-2              | IN/OUT  | IN/OUT      | IN/OUT         |  |
| <b>MPEG Program Streams</b>  |                     |         |             |                |  |
| PS   | AAC                 | OUT     | OUT         | OUT            |  |
|  | H.264               | IN/OUT  | IN/OUT      | IN/OUT         |  |
|  | MPEG-1/2 (audio)    | IN/OUT  | IN/OUT      | IN/OUT         |  |
|  | MPEG-2              | IN/OUT  | IN/OUT      | IN/OUT         |  |
|  | MPEG-4              | IN/OUT  | IN/OUT      | IN/OUT         |  |
| <b>MPEG Transport Streams</b>  |                     |         |             |                |  |
| TS   | AAC                 | IN      | OUT         | OUT            |  |
|  | AES                 | IN      | IN/OUT      | IN/OUT         |  |
|  | H.264               | IN      | IN/OUT      | IN/OUT         |  |
|  | AVCHD               | IN      | IN          | IN             |  |
|  | HDV                 | IN/OUT  | IN/OUT      | IN/OUT         |  |
|  | MPEG-1/2 (audio)    | IN      | IN/OUT      | IN/OUT         |  |
|  | MPEG-2              | IN      | IN/OUT      | IN/OUT         |  |
|  | MPEG-4              | IN      | IN/OUT      | IN/OUT         |  |
|  | PCM                 | IN      | IN          | IN             |  |
| <b>MPEG System Streams</b>   |                     |         |             |                |  |
| M1A  | MPEG-1 (audio)      | IN/OUT  | IN/OUT      | IN/OUT         |  |
| M1V  | MPEG-1 (video)      | IN/OUT  | IN/OUT      | IN/OUT         |  |
| <b>MPEG-4</b>  |                     |         |             |                |  |
| MP4  | AAC                 | IN/OUT  | IN/OUT      | IN/OUT         |  |
|  | H.264               | IN/OUT  | IN/OUT      | IN/OUT         |  |
|  | MPEG-4              | IN/OUT  | IN/OUT      | IN/OUT         |  |
| <b>iTunes video</b>  (iPod, iPhone, Apple TV) |                     |         |             |                |  |
| M4V  | AAC                 | IN/OUT  | IN/OUT      | IN/OUT         |  |
|  | H.264               | IN/OUT  | IN/OUT      | IN/OUT         |  |
|  | MPEG-4              | IN/OUT  | IN/OUT      | IN/OUT         |  |
| <b>iTunes audio</b>  (iPod, iPhone, Apple TV) |                     |         |             |                |  |
| M4A  | AAC                 | IN/OUT  | IN/OUT      | IN/OUT         |  |
| <b>MPEG-4 PSP</b>                             |                     |         |             |                |  |
| MP4  | AAC                 | IN/OUT  | IN/OUT      | IN/OUT         |  |
|  | H.264               | IN/OUT  | IN/OUT      | IN/OUT         |  |
|  | MPEG-4              | IN/OUT  | IN/OUT      | IN/OUT         |  |

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|--|-----------------------|----------|-------------|----------------|--|
| <b>QuickTime</b>    |                       |          |             |                |  |
| <i>Note: Quicktime codec support is platform dependent, all codecs may not be supported on both operating systems. Please consult QuickTime or Apple for individual codec support.</i> |                       |          |             |                |  |
| MOV  | AAC                   | IN/OUT   | IN/OUT      | IN/OUT         |  |
|  | Animation             | IN/OUT*  | IN/OUT*     | IN/OUT*        | QT codec (*output possible via QT)   |
|  | Apple Component       | IN/OUT*  | IN/OUT*     | IN/OUT*        | QT codec (*output possible via QT)   |
|  | Apple GSM 10:1        | IN/OUT*  | IN/OUT*     | IN/OUT*        | QT codec (*output possible via QT)   |
|  | Apple Intermed. Form. | IN/OUT*  | IN/OUT*     | IN/OUT*        | QT codec (*output possible via QT)   |
|  | Apple Lossless        | IN/OUT*  | IN/OUT*     | IN/OUT*        | QT codec (*output possible via QT)   |
|  | Apple ProRes          | IN/OUT*  | IN/OUT*     | IN/OUT*        | QT codec (*encoding available on all Mac versions, and on Episode Engine for Windows on Windows Server 2008) |
|  | Apple Uncompressed    | IN/OUT   | IN/OUT      | IN/OUT         |  |
|  | Apple Video           | IN/OUT*  | IN/OUT*     | IN/OUT*        | QT codec (*output possible via QT)   |
|  | Avid                  | IN*/OUT* | IN*/OUT*    | IN*/OUT*       | *Requires 3rd party QT codec   |
|  | Avid DNxHD            | IN*/OUT* | IN*/OUT*    | IN*/OUT*       | *Requires 3rd party QT codec   |
|  | Avid DV               | IN*/OUT* | IN*/OUT*    | IN*/OUT*       | *Requires 3rd party QT codec   |
|  | Avid Meridien         | IN*/OUT* | IN*/OUT*    | IN*/OUT*       | *Requires 3rd party QT codec   |
|  | Blackmagic 8 & 10-bit | IN*/OUT* | IN*/OUT*    | IN*/OUT*       | *Requires 3rd party QT codec   |
|  | Cinepak               | IN/OUT*  | IN/OUT*     | IN/OUT*        | QT codec (*output possible via QT)   |
|  | DV25                  | IN/OUT   | IN/OUT      | IN/OUT         |  |
|  | DVCPRO25              | IN/OUT*  | IN/OUT      | IN/OUT         | FCP codec (*output possible via QT)  |
|  | DVCPRO50              | IN/OUT*  | IN/OUT      | IN/OUT         | FCP codec (*output possible via QT)  |
|  | DVCPRO HD             | IN*/OUT* | IN*/OUT*    | IN*/OUT*       | FCP codec (*output possible via QT)  |
|  | H.261                 | IN/OUT*  | IN/OUT*     | IN/OUT*        | QT codec (*output possible via QT)   |
|  | H.263                 | IN/OUT   | IN/OUT      | IN/OUT         |  |
|  | H.264                 | IN/OUT   | IN/OUT      | IN/OUT         | QT codec for input (not High profile)  |
|  | HDV                   | IN       | IN/OUT      | IN/OUT         |  |
|  | ttIMA                 | IN/OUT*  | IN/OUT*     | IN/OUT*        | QT codec (*output possible via QT)   |
|  | IMX                   | IN       | IN/OUT      | IN/OUT         |  |
|  | MJPEG A/B             | IN       | IN/OUT      | IN/OUT         |  |
|  | MP3                   | IN/OUT   | IN/OUT      | IN/OUT         |  |
|  | MPEG-4                | IN/OUT   | IN/OUT      | IN/OUT         |  |
|  | Mace 3:1              | IN/OUT*  | IN/OUT*     | IN/OUT*        | QT codec (*output possible via QT)   |
|  | Mace 6:1              | IN/OUT*  | IN/OUT*     | IN/OUT*        | QT codec (*output possible via QT)   |
|  | Media 100             | IN/OUT*  | IN/OUT*     | IN/OUT*        | Requires 3rd party (*output possible via QT)   |
|  | PCM                   | IN/OUT   | IN/OUT      | IN/OUT         |  |
|  | Pixlet                | IN/OUT*  | IN/OUT*     | IN/OUT*        | QT codec (*output possible via QT)   |
|  | Qdesign               | IN/OUT*  | IN/OUT*     | IN/OUT*        | QT codec (*output possible via QT)   |
|  | RAW                   | IN/OUT   | IN/OUT      | IN/OUT         |  |
|  | RED                   | IN*      | IN*         | IN*            | *Requires 3rd party QT codec, 2K only  |
|  | Sheer Video           | IN/OUT*  | IN/OUT*     | IN/OUT*        | Requires 3rd party (*output possible via QT)   |
|  | Sorenson Video 1      | IN/OUT*  | IN/OUT*     | IN/OUT*        | QT codec (*output possible via QT)   |
|  | Sorenson Video 2      | IN/OUT*  | IN/OUT*     | IN/OUT*        | QT codec (*output possible via QT)   |
|  | Sorenson Video 3      | IN/OUT*  | IN/OUT*     | IN/OUT*        | QT codec (*output possible via QT)   |
|  | Targa Cine YUV        | IN       | IN/OUT      | IN/OUT         | (a.k.a. Cinewave)  |
|  | XDCAM                 | IN       | IN/OUT      | IN/OUT         |  |
|  | XDCAM HD              | IN       | IN/OUT      | IN/OUT         |  |
|  | XDCAM HD 422          | IN       | IN/OUT      | IN/OUT         |  |
|  | XDCAM EX              | IN       | IN/OUT      | IN/OUT         |  |
|  | YCbCr                 | IN       | IN/OUT      | IN/OUT         |  |
|  | aLaw 2:1              | IN/OUT*  | IN/OUT*     | IN/OUT*        | QT codec (*output possible via QT)   |
|  | uLaw 2:1              | IN/OUT*  | IN/OUT*     | IN/OUT*        | QT codec (*output possible via QT)   |
| QT Reference Files   | Same codecs as QT     |          |             |                |  |
| <b>AVI</b>   |                       |          |             |                |  |
| AVI  | DV25                  | IN/OUT   | IN/OUT      | IN/OUT         |  |
|  | DVCPRO25              | IN       | IN/OUT      | IN/OUT         |  |
|  | DVCPRO50              | IN       | IN/OUT      | IN/OUT         |  |
|  | DivX                  | IN*      | IN*         | IN*            | *Requires 3rd party QT plugin  |
|  | MJPEG A/B             | IN       | IN/OUT      | IN/OUT         |  |
|  | MP3                   | IN*/OUT  | IN*/OUT     | IN*/OUT        | *Requires 3rd party QT plugin  |
|  | PCM                   | IN/OUT   | IN/OUT      | IN/OUT         |  |
|  | Windows RAW (RGB)     | IN       | IN/OUT      | IN/OUT         |  |
|  | Xvid                  | IN*/OUT  | IN*/OUT     | IN*/OUT        | *Requires 3rd party QT plugin  |
|  | YCbCr                 | IN       | IN/OUT      | IN/OUT         |  |

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|---|--------------|---------|-------------|----------------|--|
| <b>DV</b>                               |              |         |             |                |  |
| DV                                      | DV25         | IN/OUT  | IN/OUT      | IN/OUT         |  |
|   | DVCPRO25     | IN      | IN/OUT      | IN/OUT         |  |
|   | DVCPRO50     | IN      | IN/OUT      | IN/OUT         |  |
| <b>GXF - GrassValley K2 SD &amp; HD</b> |              |         |             |                |  |
| GXF                                     | MPEG-2       | IN      | IN/OUT      | IN/OUT         |  |
|   | MPEG-2 HD    | IN      | IN/OUT      | IN/OUT         | Up to 100 MBit   |
|   | PCM          | IN      | IN/OUT      | IN/OUT         |  |
| <b>MXF</b>                              |              |         |             |                |  |
| Sony XDCAM SD                           | IMX (D10)    | IN      | IN/OUT      | IN/OUT         | 30,40,50 Mbps. Compatible with Harris/Leitch<br>Nexio, Avid, 360 Systems |
| Sony XDCAM HD                           | XDCAM HD     | IN      | IN/OUT      | IN/OUT         | Compatible with Avid   |
| Sony XDCAM HD 422                       | XDCAM HD 422 | IN      | IN/OUT      | IN/OUT         | Compatible with Avid   |
| Sony XDCAM EX                           | XDCAM EX     | IN      | IN/OUT      | IN/OUT         | Compatible with Avid   |
| Sony XDCAM MPEG-4 Proxy                 | MPEG-4       | IN      | IN          | IN             |  |
| MXF OP1a                                | DV25         | IN      | IN/OUT      | IN/OUT         |  |
|   | DVCPRO25     | IN      | IN/OUT      | IN/OUT         |  |
|   | DVCPRO50     | IN      | IN/OUT      | IN/OUT         |  |
|   | IMX          | IN      | IN/OUT      | IN/OUT         | 30,40,50 Mbps. Compatible with Omneon                                    |
|   | MPEG-2 ES    | IN      | IN/OUT      | IN/OUT         |  |
|   | JPEG2000     | IN      | IN          | IN             |  |
|   | AES          | IN      | IN/OUT      | IN/OUT         |  |
|   | BWF          | IN      | IN/OUT      | IN/OUT         | Compatible with Omneon   |
|   | DVCPRO HD    | IN*     | IN*/OUT*    | IN*/OUT*       | *Requires 3rd party QT plugin  |
|   | DNxHD        |         | OUT*        | OUT*           | *Requires 3rd party QT plugin  |
| MXF OPAAtom                             | DV25         |         | OUT         | OUT            |  |
|   | DVCPRO25     |         | OUT         | OUT            |  |
|   | DVCPRO50     |         | OUT         | OUT            |  |
|   | MPEG-2 ES    |         | OUT         | OUT            |  |
|   | AES          |         | OUT         | OUT            |  |
|   | BWF          |         | OUT         | OUT            |  |
|   | DVCPRO HD    |         | OUT*        | OUT*           | *Requires 3rd party QT plugin  |
|   | DNxHD        |         | OUT*        | OUT*           | *Requires 3rd party QT plugin  |
| <b>Audio only</b>                       |              |         |             |                |  |
| AIFF                                    | PCM          | IN/OUT  | IN/OUT      | IN/OUT         |  |
| MP3                                     | MP3          | IN/OUT  | IN/OUT      | IN/OUT         |  |
| WAV                                     | PCM          | IN/OUT* | IN/OUT*     | IN/OUT*        | *BWF header support included   |
| OGG                                     | Vorbis       | OUT     | OUT         | OUT            |  |
| ADTS                                    | AAC          | IN/OUT  | IN/OUT      | IN/OUT         |  |

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|-------------------------|--------------|---------|-------------|----------------|---------|
| <b>Pro Audio Option</b> |              |         |             |                |         |
|                         | AMR NB       | IN/OUT  | IN/OUT      | IN/OUT         |         |
|                         | Dolby AAC-HE | IN/OUT  | IN/OUT      | IN/OUT         |         |
|                         | Dolby AAC-LC | IN/OUT  | IN/OUT      | IN/OUT         |         |
|                         | Dolby AC-3   | IN/OUT  | IN/OUT      | IN/OUT         |         |

| Features   | Episode | Episode Pro | Episode Engine | Comments  |
|--|---------|-------------|----------------|---|
| Extensive format support up to HD resolutions for new media, web, postproduction, DVD/Blu-ray and more | X       | X           | X              | MPEG-1/-2/-4, WMV9, VC-1, DV, WebM, 3GPP/3GPP2, M4A, MOV, ProRes*, other QuickTime codecs, and more. Optimized Flash 8+9 support.   |
| Graphical workflow builder   | X       | X           | X              | Drag-and-drop interface makes building encoding workflows simple.   |
| One-Click Clustering with built-in file sharing  | X       | X           | X              | Allows any computer on the network, Mac or PC, to automatically join a transcoding cluster, with simply a click, for maximum flexibility and full scalability                           |
| Monitors   | X       | X           | X              | Monitor local, network, or FTP folders for fully automated workflows  |
| Automatic file deployment  | X       | X           | X              | Automatically deliver encoded files to local folders, network shares, FTP servers, and YouTube  |
| Full 4:2:2:4 and 4:2:0 support, 10 bit 4:4:4:4 for pro formats   | X       | X           | X              | For optimized picture quality   |
| Choose from many professional templates or flexible custom settings                                    | X       | X           | X              | Full set of pre-built settings templates for ease-of-use. No compression knowledge needed.  |
| Support for up to 16 audio channels  | X       | X           | X              | Channel mapping filter for 16 channels included   |
| Fully configurable advanced preprocessing filters  | X       | X           | X              | Video: black and white restoration, HSV and gamma correction, noise removal, image sharpening. Audio: Including normalize, balance, fade in/out   |
| Powerful preview   | X       | X           | X              | Before/after comparison   |
| Bumpers and trailers   | X       | X           | X              | Add intro and outro movies to your content  |
| Picture-in-Picture   | X       | X           | X              | Add a picture, animation or a movie as a watermark  |
| Support for metadata   | X       | X           | X              | Add copyright and file info   |
| Closed captions  | X       | X           | X              | Pass-through of EIA-608 and eIA-708 in AC-3, SCTE-20 and VBI in-band Close Captions when encoding MPEG-2 video; conversion of NTSC-CC types including VBI in-band to EIA-608 or SCTE-20 |
| Support for alpha channels   | X       | X           | X              | Transparency, blue/green screen and Flash encoding  |
| Advanced deinterlace filters   | X       | X           | X              | Produce the best possible progressive output even when the source material has been edited and cut  |
| Full field order handling  | X       | X           | X              | Change field dominance  |
| Hinting (streaming)  | X       | X           | X              | According to IETF, ISMA and 3GPP  |
| Automatic input format detection   | X       | X           | X              | Video codec, audio codec, color sampling, frame rate, pixel aspect, audio sampling  |
| 2-pass encoding  | X       | X           | X              | For maximum quality (H.264, WMV, MPEG2/4, H.263)  |
| Resizing and resampling algorithms   | X       | X           | X              | Give the best quality for small-screen, low-bandwidth display devices and when upscaling from SD to HD  |
| Frame-rate conversion  | X       | X           | X              | NTSC to/from PAL; 3:2 pulldown, 2:3 pulldown  |
| Inverse telecine   | X       | X           | X              | Even when the source material has been edited and cut   |
| Unlimited batch processing   | X       | X           | X              | Prioritize encoding and add files and settings to the batch while running; create bookmarks to source folders.  |
| Parallel encoding, number of jobs:   | 1       | 2           | Unlimited      | Speeds up encoding by allowing multiple jobs to be processed in parallel  |
| Professional format support  |         | X           | X              | MXF, GXF, IMX, MPEG-2/-4 Transport Streams, and more  |
| Support for surround sound encoding 5.1, 7.1   |         | X           | X              | Transport Streams, and more   |
| Split-and-Stitch® distributed encoding   |         |             | X              | Enables distributed and segmented encoding  |
| Pro Audio option   | X       | X           | X              | Separate purchase option that adds support for Dolby ACE, AAC-HE, AAC-LC, and AMR audio codecs  |

\* ProRes encoding supported on all Mac versions and on Episode Engine for Windows on Windows Server 2008.

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