

Final Cut Studio Solutions

Third-Party integration featuring QuVIS



The Solution

QuVIS Wraptor is a software plug-in for Apple Compressor that adds the ability to output a Final Cut Pro project or QuickTime movie as a professional-quality, DCI JPEG2000-encoded, AES-encrypted, MXF-wrapped and distribution-ready Digital Cinema Package (DCP). A Digital Cinema Package, or DCP, is the standardized file structure used to distribute Digital Cinema content (e.g. digital dailies, a motion picture, a movie trailer, an advertisement, etc.).

Wraptor fully integrates with Compressor, providing familiar controls, processing workflow and access to distributed processing capabilities via Apple Qmaster. Wraptor outputs an industry-compliant DCP that can be directly loaded and played on any standard Digital Cinema playback server.

A key advantage to the DCPs created by Wraptor is their small storage footprint achieved with QPJ™ (Quality Priority JPEG2000), QuVIS' patented wavelet image encoding technology. The QPJ™ codec uses the DCI JPEG2000 codestream and is therefore fully compatible with all JPEG2000 decoders and playback servers that meet the Digital Cinema codestream requirements.

Wraptor dramatically reduces the cost of entry for content producers submitting their projects in the Digital Cinema format to film festivals, industry award events, Digital Cinema advertising and other exhibition venues.

Motion picture studios and commercial post houses using Final Cut Studio also benefit from Wraptor's low cost-of-entry by reducing their need for specialized DCP mastering equipment and third-party services. With Wraptor and Final Cut Studio, the production costs for lower-budget movie shorts, trailers, advertisements, public service announcements, training videos, and other ancillary content can be kept under control and on budget. High-quality, secure DCP archives can also be created using Final Cut Studio with Wraptor.

Primary components

Supported Source Formats

- Apple ProRes 422
- H.264
- Uncompressed

Image Processing

- Automatic 4:2:2-to-4:4:4 conversion
- YCbCr/RGB-to-'XYZ' colorspace conversion
- DCI JPEG2000 image encoding using QPJ

Audio Processing

- Up to 6-channels of 24-bit, 48kHz audio
- Automatic conversion to Digital Cinema broadcast wave format

Content Encryption

- Secure 128-bit AES content encryption
- Distribution KDM authoring
- Third-party Content Management System compatible

DCP Packaging

- Interop DCP and SMPTE DCP capable
- Ready for electronic or physical distribution

DCP Distribution

- QuVIS QuLoad (included) – distribute DCPs to QuVIS Digital Cinema playback servers over a network.
- EXT2 Driver (included) – copy DCPs direct to USB 2.0 distribution hard drives.

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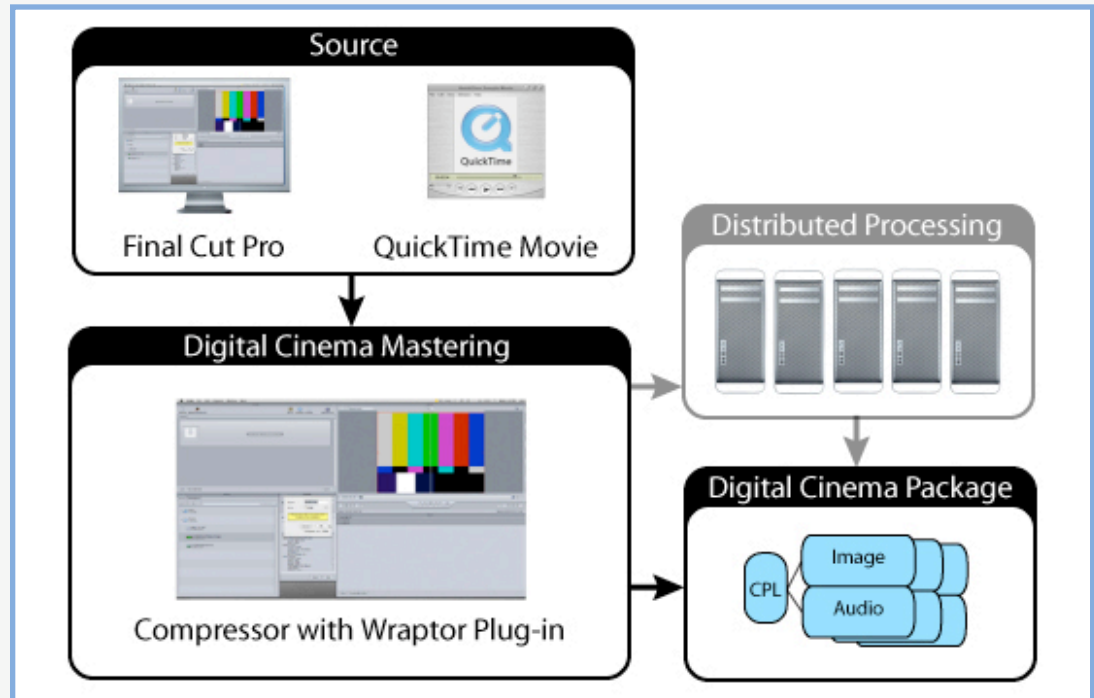


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The Workflow

The Wraptor Digital Cinema Mastering plug-in for Compressor provides an integrated solution for creating industry-compliant DCP files directly from a Final Cut Pro project or a QuickTime movie.

Digital Cinema Mastering functions provided by Wraptor include: Sampling Conversion, Colorspace Conversion, DCI JPEG2000 Image Encoding, Audio Processing, Optional Content Encryption and DCP Packaging.



DCI JPEG2000 image encoding is performed using QuVIS' patented QPJ (Quality Priority JPEG2000) technology. QPJ combines guaranteed image quality processing with the storage efficiencies of QPE (Quality Priority Encoding) to deliver high image quality with a low storage footprint.

Wraptor leverages multi-core system architectures with the distributed processing capabilities of Compressor and Qmaster clusters to maximize resources and job processing efficiency.

Once complete, DCPs can be directly loaded onto a QuVIS D-Cinema server (mastering or playback) using the included, OS X version of QuVIS QuLoad. For physical distribution, DCPs can be saved to a portable hard drive, delivered to a distributor and loaded onto any industry-compliant DCI JPEG2000 playback server, including the QuVIS Cinema Player 4 and the QuVIS Acuity mastering server.



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QuVIS Inc., is a leading provider of high fidelity motion imaging technology. QuVIS has been providing wavelet-based imaging technologies to the Digital Cinema industry since the late 1990's. QuVIS, Inc., located in Topeka, Kansas was founded in 1994 to provide advanced digital imaging technologies to content producers. QuVIS products have been utilized worldwide for content production, post-production, simulation, image analysis, Digital Cinema exhibition, multi-screen and large screen displays.