

THE PROFESSIONAL STANDARD FOR CINEMATIC ENCODING



Sonic CineVision™ is the world's first fully-comprehensive encoding solution for Blu-ray Disc and DVD-Video title production. Approved by leading Hollywood production facilities, CineVision features stunning cinematic-quality encoding; support for all three next-generation video codecs; unrivaled parameter control and stream legalization; built-in video processing from Digital Vision™; advanced segment-based re-encoding; and exclusive ExpressQC™ and StreamData™ encoding technologies; CineVision is the encoding solution your business simply can't afford to be without.

INTRODUCING CINEVISION

Competing in today's professional media services market means keeping up with an ever-expanding array of video distribution options, each with their own format-specific requirements. That takes an encoding solution that delivers powerful control and maximum workflow flexibility. With the arrival of Blu-ray Disc, it's more important than ever that your encoding systems support the latest capabilities and ready your business for new opportunities. There's only one encoder that meets that test: Sonic CineVision.

Sonic CineVision is a mastering-level encoding system specifically designed to meet the stringent image-quality demands of major motion picture studios and high-end authoring facilities. Built from the ground up to tackle the complex challenges of encoding for Blu-ray Disc, CineVision is optimized to provide top quality at low bit rates while maintaining the HD performance that studios demand. CineVision's ground-breaking encoding technology - developed for Blu-ray Disc - is also now available as best-of-class DVD-Video encoding as part of CineVision SD.

CineVision offers complete support for all three HD video codecs, positioning you to meet all of your clients' encoding needs. And with comprehensive support for a wide range of input types, as well as extensive legalization capabilities, CineVision can easily handle your HD content no matter where it originates. CineVision fits seamlessly into any existing workflow, and excels at tight integration with Sonic's title development systems. Combining unrivaled control of encoding parameters with advanced post-encode QC and workflow optimization tools, CineVision is the ultimate future-proof solution for HD encoding.



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KEY FEATURES

Comprehensive Support for HD Encoding

CineVision delivers outstanding image quality for all three next-generation HD video codecs – AVC, VC-1 and MPEG-2 – so you're fully equipped for all aspects of high-definition encoding.

Built-in Format Legalization

CineVision's unique integrated legalization technology verifies format compliance after every parameter change, ensuring that your encodes are a perfect match for your delivery target.



CineVision User Interface - CineVision's user interface gives you detailed control over every aspect of your encode.

Digital Vision Mastering Toolset

Hollywood pedigree mastering tools are included as standard. CineVision incorporates Digital Vision's Emmy award winning DVO technology for film grain management, aperture correction, alias filtering, dust removal, scratch removal, and brick wall filtering for the ultimate optimization toolset.*



Input Format Flexibility

CineVision offers comprehensive support for a wide range of input types, including QuickTime®, AVI, and DPX image sequences. No matter where your HD content originates, CineVision handles it with ease, seamlessly integrating into any existing workflow.

Professional Encoding Features

CineVision features one- and two-pass encoding modes as standard, in addition to Constant (CBR) and Variable (VBR) Bit Rate encoding styles.

Advanced Parameter Control

CineVision features extensive access to the low-level parameter set for every video codec. Support for format-compliant High Profile AVC (H.264) and Advanced Profile Levels 2 and 3 (VC-1) is included as standard.

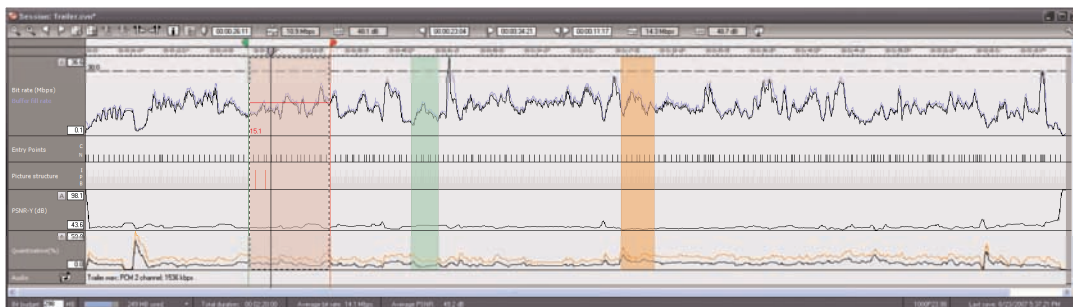
Advanced Segment Re-encoding

Fine tune your completed encodes by re-encoding selected segments with optimized encode parameters without re-encoding your whole feature. CineVision's exclusive segment management system even allows the creation and auditioning of multiple "takes" for each segment. The complete set of DVO filter plug-ins are also available - in any combination - on any selected segment.



ExpressQC™ Segment Marking

Make dramatic improvements to your QC efficiency. ExpressQC is an exclusive, patent-pending QC tool, built right into the CineVision timeline, which automatically compares encoded video to the source and identifies sections that are statistically lower in quality.



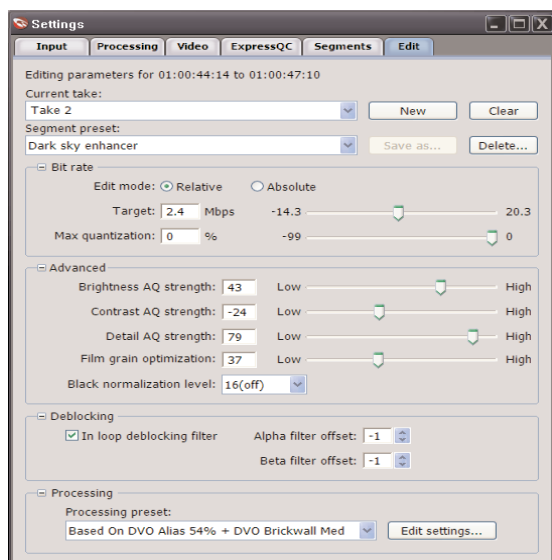
CineVision Timeline - CineVision's timeline provides detailed information on your finished encode and provides an intuitive tool set for re-encoding selected segments.

StreamData™ Integration

Exchange key encoding metadata – including chapter-point information and the server location of encoded media – for unsurpassed integration with your Scenarist® authoring system.

State-of-the-Art Audio

With the state-of-the-art DTS-HD Master Audio Suite - featuring support for 7.1 surround and lossless VBR compression - CineVision ensures that your audio quality is a match for your high definition video.*



Segment-Based Re-Encoding - CineVision's segment management tools enables you to view selected, pending, and completed encodes in an instant as well as build a list of multiple takes for auditioning different encode settings on a selected segment.

New Design for a New Era

CineVision is a brand new encoder built on all-new algorithms and technology. Harnessing the latest developments in encoding, CineVision delivers the quality and power you need for your business to thrive in the age of HD.

Designed with the Industry, for the Industry

CineVision was developed in collaboration with the Sonic HD Authoring Alliance (HDAA), the first and only worldwide association of top DVD authoring houses dedicated to facilitating the rollout of titles for release on Blu-ray Disc.





SPECIFICATIONS

Video Support

- AVC (H.264) Main/High Profiles, Levels 3, 3.1, 3.2, 4, and 4.1
- VC-1 Advanced Profile, Levels 2 and 3
- MPEG-2 Main profile, Levels Main and High

Audio Support

- DTS® -HD (standalone application)*

Encoding Modes

- One- and two-pass bit rate-controlled VBR
- One-pass CBR

Encoding Tools

- Full preset editors giving complete parameter access for AVC, VC-1 and MPEG-2
- Informative parameter change logs for preset editors
- Detailed encode progress display, including current speed and expected completion time
- Batch encoding – queue multiple encoding sessions in a batch
- Multi-input source sessions - encode a single movie from multiple captured files
- Embedding of source timecode in encoded files
- Import chapter points directly from CSV or Sonic StreamData files
- Flexible chapter timecode entry based from zero or any given source timecode reference

Preprocessing and Mastering Tools*

- Complete set of professional video filters available for use on entire source or on specific segments
- DVO Grain – Film grain filtering and management
- DVO Aperture – Aperture (sharpness) correction
- DVO Regrain – Add grain to material
- DVO Brickwall – Advanced low-pass filtering
- DVO Alias - Remove aliasing artifacts from interlaced source material
- DVO Dust - Built-in restoration: Remove scratch and dust from source
- Full resolution preview
- Instantly recallable preset editors for all parameters

Movie Timeline

- Bit rate track - Windowed and GOP averaging views
- Decoder buffer fill rate graph
- Frame-by-frame picture structure track (I, P and B)
- PSNR track
- Quantization track
- Windowed and GOP averaging views for all tracks
- Custom entry point location track
- Target BitBudget™ with MB used/remaining display
- Source timecode/movie timecode display modes
- Mean bit rate displays for movie and segments
- PSNR display graph

Video Preview

- HD-SDI playback of source and movie (requires NVIDIA Quadro FX SDI GPU, not included)

- Instant toggle between source and encoded movie preview
- Sync mode playback - slave encoded movie transport to source transport for instant comparison
- QC Loop mode - Automatic alternating replay of a selected section of the source and movie
- Varispeed playback for source and movie files
- Transport controls for source and encoded file

Advanced Segment-based Editing and Re-encoding

- Edit in-point, out-point and segment duration fields
- Segment edit tab with re-encoding parameter values
- Absolute and relative bit rate editing via simple click-drag control
- Access to wide number of key encoding parameters on segment-by-segment level
- DVO mastering tools available for segment-by-segment re-encodes
- Mark new I-frames during segment editing
- Multiple-take segment management
- ExpressQC™ – Auto segment marking based on quality metric (PSNR)

Parameter Legalization Tools

- Blu-ray Disc primary video
- Blu-ray Disc secondary video
- DVD-Video
- Dual format legalization: HD DVD Main and Blu-ray Disc Primary
- Encode a single file for both formats
- HD DVD Standard Content and Advanced Content main video
- HD DVD Advanced Content Sub-video

Video Resolution Support

- 1920 x 1080
- 1440 x 1080
- 1280 x 1080
- 1280 x 720
- 960 x 1080
- 720 x 576
- 720 x 480
- 704 x 576
- 704 x 480
- 544 x 576
- 544 x 480
- 480 x 576
- 480 x 480
- 352 x 576
- 352 x 480
- 352 x 288
- 352 x 240

Frame Rate Support

59.94, 50, 29.97, 25, 24, 23.98, 3:2 pull-down insertion

Supported Input Formats

VIDEO - QuickTime® files (.qt and .mov), AVI files (.avi), DPX image sequences (RGB 10-bit), Planar YUV files (.yuv), MPEG-2 video files, MPEG-4 video files, Windows Media Video files (.wmv)

AUDIO - WAV Audio Files (standalone DTS Master Audio Suite Application)

CHAPTER POINT LIST - CSV, StreamData™

Export Formats

- StreamData
- Uncompressed AVI from encoded movie
- Segments text list

* not included with all CineVision systems

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