



Everybody's watching

AmberFin iCR 5.0 features

- Ingest of JPEG2000, MPEG-2, DNxHD, DV/DVCPRO 25/50/100/HD and uncompressed
- Closed caption support on ingest and transcode
- Transcode during ingest for low latency multi-format transcoding
- Assisted Review and QC enhances operator efficiency
 - VTR status QC
 - Video content QC
 - Audio content QC
 - XML-based QC reports with timeline-based QC review and annotation tools
- Real-time Proxy Creation
- File Conversion Tools which include:
 - Motion compensated standards conversion
 - Pre-processing filter for image enhancement
 - SD/HD up/down/cross conversions and SD/HD Color Space Conversion
 - Speed-ups and Slowdowns of video and audio to always maintain sync
 - Constant Cadence 3:2 pulldown Add/Remove as well as Frame Dropping/Doubling
 - VBI pass-through and ability to Add/Remove SD Analog Blanking (704 pixels)
 - Civolution watermarking
- Integration and Automation
 - Web service control as though you had a "robot operator"
 - Avid Interplay support
 - VTR Control and Batch EDL acquisition
 - VDCP interface and VTR Emulation
 - GUI java plug-in API
 - Watch Folders
 - User Definable Scripts and notifications

AmberFin iCR v5.0 Technical data sheet

AmberFin iCR is a software platform that performs high quality ingest (encoding), transcoding and automated QC. Built upon Emmy award winning technology from Snell & Wilcox iCR ensures your media assets have the highest quality whether they are SD, HD or new media assets. AmberFin iCR creates the highest quality files at bitrates up to 25% lower than its competitors. Its automated and human assisted QC workflows allow levels of operator-free working to bring a step-change reduction in the cost of creating media assets.

AmberFin iCR can simultaneously encode, transcode, QC and create proxies - saving time and increasing throughput in today's cost-sensitive media factory applications. Whether operating a single iCR or a network of iCRs tailored to the specific needs of your business, AmberFin iCR can deliver the files you need at the low costs required to run a profitable media business.

JPEG 2000

JPEG 2000 is the optimum choice as an intermediate mastering format for high quality content such as movies. JPEG2000 offers superior image quality with full 10 bit dynamic range.

Closed Captioning

iCR v5.0 has an efficient way of handling closed captions. Support for film and TV frame rates, VBI / VANC support, ATSC as well as the ability to insert .scc files into a workflow turns.

MXF AS02

Highly efficient MXF application specification for streamlined 'New Media Factory' operations, reduces cost and increases efficiency. Fully compliant with the SMPTE377M – 2004 (MXF).

SD to HD conversion for European Broadcasters

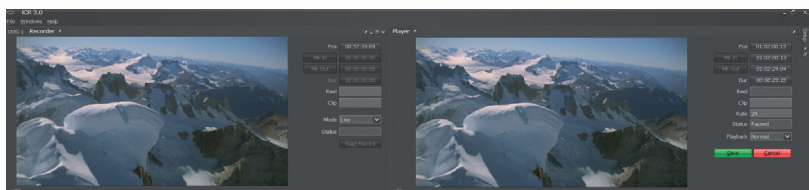
Improved workflow for 576i/25 to 720p/50 conversion ensuring the highest quality output in the lowest possible time.

Avid interplay

For integration in an Avid editing environment, including Avid Media Composer and Avid Unity. AmberFin's Avid integration offers instant interoperability freeing edit suites for editing workflows.

Codecs and wrappers

iCR now features native support for Avid DNxHD and for Apple Final Cut Pro QuickTime uncompressed for integration into Avid or Apple NLE workflows.



iCR application solutions

	iCR 1001 - Transcoding	File to File transcoding. Codec and wrapper mix is listed below	
	iCR 2001 - Review & QC	Real-time Video playback and Quality Control. QC hardware required for real time video and audio content analysis.	SD system • 525/625 • AES/EBU: 2/3 ch, embedded: 8/8 ch
	iCR 3001 - Ingest	Real-time video ingest. Turning tapes and streams into files. Live, Timecode, Batch, Automation modes supported	HD system • 1080 @ 60i / 59.94i / 50i • 1080 @ 23.98sF / 24sF / 25sF • 720 @ 60p / 59.94p / 50p • AES/EBU: 4/8 ch, embedded: 16/16 ch
	iCR 5001 - Mastering	A fully loaded system with all modules	



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Codecs and wrappers

iCR now features native support for JPEG2000, Avid DNxHD and for Apple Final Cut Pro QuickTime uncompressed for integration into Avid or Apple NLE workflows.

Format		Ingest	Play back	QC	Transcode	
					in	out
AVI (Matrox compatible)	DV / DVCPPro	•	•	•	•	•
	Uncompressed video	•	•	•	•	•
	Uncompressed audio	•	•	•	•	•
	User installed codecs (input side)	x	•	•	•	x
MXF OP1a	MPEG-2 I frame	•	•	•	•	•
	MPEG-2 Long-GOP	x	•	•	•	•
	HDV	x	•	•	•	x
	DV / DVCPPro 50/100/HD	•	•	•	•	•
	Uncompressed audio	•	•	•	•	•
	MP1L2 audio	•	•	•	•	•
MXF XDCAM	Dolby D (AC-3, 5.1)	•	•	•	•	•
	XDCAM HD	•	•	•	•	•
	D10 (IMX 30 / 40 / 50)	•	•	•	•	•
MXF P2	DVCAM	•	•	•	•	x
	DV / DVCPPro 50/100/HD	•	•	•	•	•
MXF OP-Atom	DNxHD	•	•	•	•	•
MXF AS02	JPEG 2000	•	•	•	•	•
	MPEG-2 I frame	x	•	•	•	•
	MPEG-2 Long-GOP	x	•	•	•	•
	D10 (IMX 30 / 40 / 50)	x	•	•	•	•
	DV / DVCPPro 50/100/HD	x	•	•	•	•
	Uncompressed audio	x	•	•	•	•
	Dolby D (AC-3, 5.1)	x	•	•	•	•
MPEG2 Transport Stream	MPEG-2 I frame	•	•	•	•	•
	MPEG-2 Long-GOP	x	•	•	•	•
	D10 (IMX 30 / 40 / 50)	•	•	•	•	•
	HDV	x	•	•	•	x
	H.264 / AAC	x	•	•	•	special
	Uncompressed audio	•	•	•	•	•
	MP1L2 audio	•	•	•	•	•
MPEG2 Program Stream	Dolby D (AC-3, 5.1)	•	•	•	•	•
	MPEG-2 I frame	•	•	•	•	•
	MPEG-2 Long-GOP	x	•	•	•	•
	D10 (IMX 30 / 40 / 50)	•	•	•	•	•
	MPEG1 video	proxies	x	x	x	•
	Uncompressed audio	•	•	•	•	•
Elementary Streams	MP1L2 audio	•	•	•	•	•
	Dolby D (AC-3, 5.1)	•	•	•	•	•
	JPEG 2000	•	•	•	•	•
	MPEG-2 I frame	•	•	•	•	•
	MPEG-2 Long-GOP	x	•	•	•	•
	D10 (IMX 30 / 40 / 50)	•	•	•	•	•
	MPEG1 video	proxies	x	x	x	•
	DV / DVCPPro 50/100/HD	•	•	•	•	•
	Uncompressed audio	•	•	•	•	•
	MP1L2 audio	•	•	•	•	•
System stream	Dolby D (AC-3, 5.1)	•	•	•	•	•
	WAV / BWAV	•	•	•	•	•
Quicktime (.mov)	AIFF	•	•	•	x	x
	MPEG1 video + MP1L2 audio	proxies	•	•	x	•
	MPEG-2 I-Frame	x	•	•	•	x
	MPEG-2 Long-GOP	x	•	•	•	x
	XDCAM HD	x	•	•	•	•
	D10 (IMX 30 / 40 / 50)	•	•	•	•	•
	DV / DVCPPro 50/100/HD	•	•	•	•	•
	Native QT 7 A/V codecs on Windows	x	•	•	•	•
	Pro-Res	x	•	•	•	x
	User installed QT 7 A/V codecs (e.g. ON2 flash)	x	•	•	•	•
	Uncompressed 10bit / 8 bit	•	8 bit	8 bit	•	•
	Sorensen video 3	proxies	•	•	•	•
	ASP	x	•	•	•	•
	H.264	proxies	•	•	•	•
	AAC	x	•	•	•	•
AMR	x	•	•	•	•	

Key: • – full support □ - partial support, x - unsupported in current version. Some functionality such as Dolby D is sold as an option. Full details from AmberFin or one of its distribution partners. <http://www.amberfin.com>