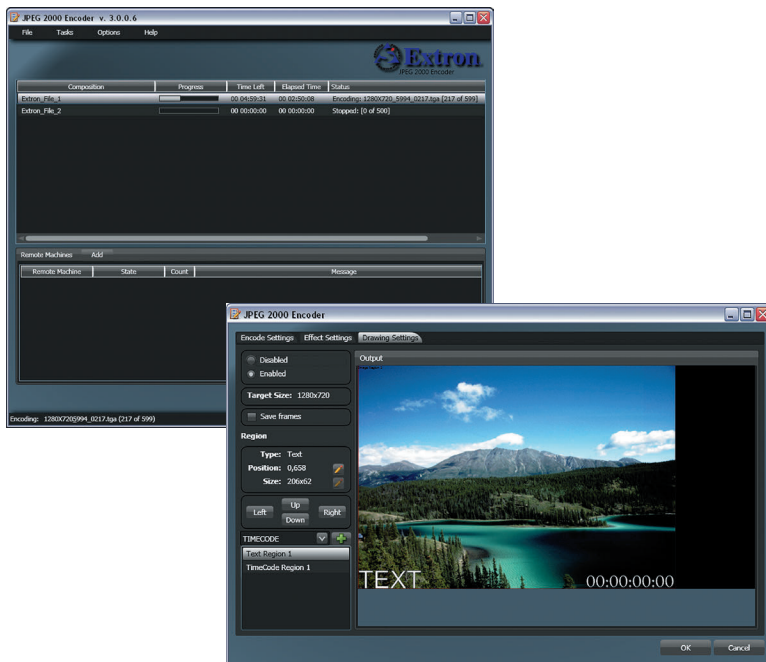


J2KENC & J2KENC PRO

JPEG2000 ENCODING SOFTWARE
FOR JMP 9600 MEDIA PLAYERS

- ▶ Encode visually lossless, high bit rate, HD or 2K video and multi-channel audio clips for playback on JMP 9600 units
- ▶ Prepare content for one or two channel playback, locked or independent
- ▶ Encode content for synchronized, multi-screen playback or 3D Stereo projection from one or multiple JMP 9600 players
- ▶ Encode premium quality video with up to 36 bits per pixel and 4:4:4 color sampling
- ▶ Import sequential frame graphics files from video/audio editing systems
- ▶ Import mono or stereo audio wave files from audio/video editing systems



The J2KENC JPEG2000 Encoding Software allows users to prepare HD or 2K video and multichannel audio content for playback from Extron JMP 9600 media players. J2KENC software provides basic encoding functionality while the J2KENC PRO provides higher speed processing plus more editing and encoding tools. Both software applications operate on Microsoft® Windows® computing platforms. This software allows preparation of content for playback on the JMP 9600 without the need for external encoding services.



Extron® Electronics
INTERFACING, SWITCHING AND CONTROL

DESCRIPTION

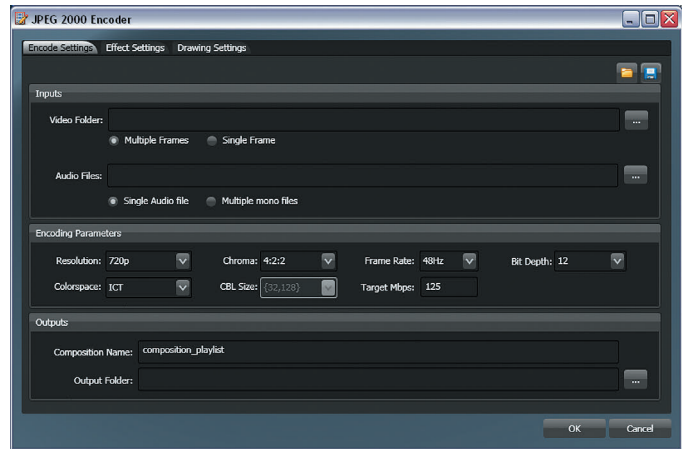
The **J2KENC** and **J2KENC PRO** software provide the means to prepare digitally encoded JPEG2000 HD or 2K video and stereo or multichannel audio content for playback on Extron JMP 9600 media players. J2KENC software allows users to construct visually lossless MXF wrapped DCP - Digital Cinema Package files. The DCP files include video, audio, and other associated data prepared to comply with DCI - Digital Cinema Initiative requirements for unencrypted content. The DCP files that are generated are transferred to the JMP 9600 across a LAN connection using FTP - File Transfer Protocol.

J2KENC SOFTWARE FEATURES

- ▶ Included with JMP 9600 high resolution video players
- ▶ Prepares unencrypted Digital Cinema Format DCPs for playback on JMP 9600 high resolution video players
- ▶ Operates on a single Microsoft® Windows® computer platform utilizing single core, single thread processing
- ▶ Select video resolution, frame rate, format, color space, and compression rate
- ▶ Image encoding for sequential frame BMP, DPX, PNG, TGA, and TIFF graphic file formats with 8, 10, or 16 bits per color
- ▶ Integrate uncompressed 16 or 24-bit stereo 48kHz broadcast WAV files
- ▶ Prepares MXF wrapped audio and video streams - reels
- ▶ Status of the encoding process is tracked through to completion
- ▶ Pre-encoding validation of source continuity for audio and video files
- ▶ Suspend and resume encoding jobs
- ▶ Encoding at 720p, 1080i, 1080p, or 2K resolution
- ▶ Encoding of interlaced or progressive content formats including: 25/50i, 30/60i, 29.97/59.94i, 23.98, 24, 25, 29.97, 30, 48, 50, 59.94, and 60 frames per second
- ▶ Image adjustments support content encoding for playback across two synchronized outputs in 3D or dual screen applications
- ▶ YC_b, RGB, or XYZ color space encoding supporting different source or display requirements encountered in a variety of special venue or audio visual applications
- ▶ Encoding support for bit depths of 8, 10, or 12 bits per color channel and 4:2:2 or 4:4:4 color sampling

J2KENC PRO SOFTWARE – ADDITIONAL FEATURES

- ▶ Advanced editing features including: text overlay, timecode stamp, image cropping, letterbox, and letterbox positioning within the output frame
- ▶ Batch encoding
- ▶ Multi-thread, 32 bit, multi-core processing for increased encoding speed
- ▶ Supports preparation of up to 16 channels of audio if encoding is prepared for a single video output or up to 8 channels if content is prepared for playback from 2 video outputs
- ▶ Image adjustments support encoding of content played back synchronized across multiple JMP 9600 2K players in 3D, 4K, or ultra-wide screen applications



Define audio and video input source, encoding parameters, and destination storage



J2KENC PRO – Advanced editing features including: text overlay, timecode stamp, letterbox, letterbox positioning, and image cropping

MINIMUM SYSTEM REQUIREMENTS

- ▶ Intel® Pentium® 4, 2.8 GHz single core processor
- ▶ 2 GB of RAM
- ▶ 1 GB available hard disk space on system drive. 500 GB or more free space on media drive for DCP output storage
- ▶ Network capable computer
- ▶ Windows 7 or Windows XP SP3, 32 or 64 bit operating system

RECOMMENDED SYSTEM ENHANCEMENTS

- ▶ Intel Core™ i5, 3.4 GHz dual-core, 4-thread or greater
- ▶ 4 GB RAM or greater
- ▶ Microsoft .NET Framework 3.5 SP1
- ▶ Windows 7, 64 bit operating system

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