

- Real-time transcoding
- Invisible watermarking
- MPEG to H.264
- Addition of closed captioning to existing stream
- Addition of SCTE Line 21 data to existing stream
- Header update without re-encoding
- Time code re-sync without re-encoding
- Logo insertion
- DTS, AC3, MPEG audio extraction

Can your encoder analyze and repair MPEG?

- Private stream extraction
- Stream splitting
- Stream analysis and compliance report
- Instant stream properties
- Detailed stream analysis
- VBV fullness log
- Graphical display of motion vectors, MQuants and block type overlays
- Stream trim, cut paste replace

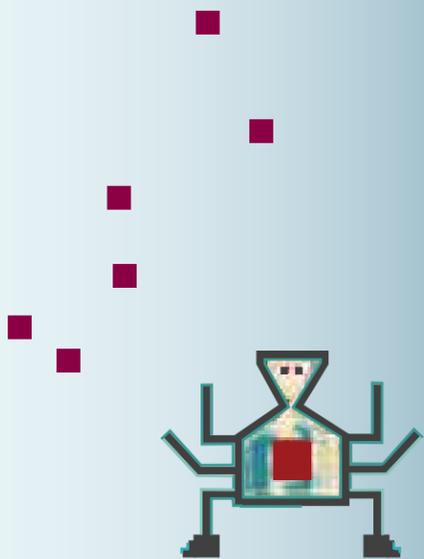
Our encoders are loaded with features that enable encoding optimization for all situations. Our embedded decoder splits, analyzes, and repairs MPEG streams. It is an easy to use tool that allows you to transcode MPEG and H.264 formats. Closed captioning can be added and stream headers can be updated without re-encoding. Our patented invisible watermarking technology is ideal for video content protection.

Flexible and comprehensive, is why you need our tools in your tool box.

PixelTools

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What is in your tool box?

PixelTools encoding software technology provides the highest quality solutions for all MPEG needs including the AVC and HEVC markets. Our stand alone and embedded tools comprise a cost effective encoding solution that features flexibility, scalability, and quality that is superior to conventional hardware. Dynamic parameter changes facilitate challenging encoding requirements like scene looping and clip insertions. Our encoders are easy to use, well documented, and come with a year of support. Running on the latest multi-core SSE3 enabled PCs and Macs, our encoders process HD content faster than real time.

Our encoder is essential for your tool box.

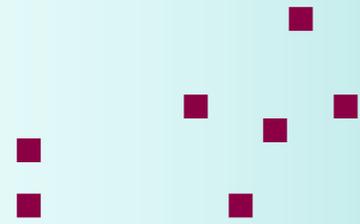
- Real-time 1920 x 1080 IPB encoding
- Bit-rates to 500 mbps
- Frame sizes to 16K x 16K
- Transport output
- Closed Captioning
- SCTE Line 21/CGMS data
- Copy Once and APS flags
- DTS and AC3 multiplexing
- 422 chroma encoding
- Bitmap to MPEG
- Pan and Scan offsets

Is your encoder flexible?

- Scene change detection
- Frame filtering
- Nielsen watermarking
- RGB to YUV coefficient selection
- Graphics to video conversion
- Frame re-sizing
- Stream pre-processing
- Constant and variable bit-rate
- 4:2:2 Profile
- I frame only
- Direct video input

Our tools are used by major film studios and post-production companies

PixelTools



Providing advanced and comprehensive software encoding, captioning, analysis, and repair tools.

■ Encode | Caption | Analyze | Repair

Our highly optimized tools take advantage of multiple core /multiple processor systems and create streams compliant with contemporary broadcast specifications.

MPEGRepairHD®

Flagship product containing Ultra High Definition MPEG AVC and HEVC video encoder, decoder, analyzer, and stream modification tools. The Swiss Army knife of MPEG, MPEGRepairHD is a must have tool for those in the MPEG video business. The encoder can embed logos, change frame rates, capture live screen video and accomplish many other capabilities. The decoder section can insert CEA-708 and CEA-608 captions into video without transcoding the video. The repair section of the tool can insert and update stream headers including time code, ADF flags, V-Chip data, and aspect ratio. The tool adds Nielsen Commercial broadcast tracking to individual files or batches of files and analyzes files for the existence of Nielsen tracking watermarks.

Expert-Caption®

Embeds CEA-708 and CEA-608 captions into MPEG and AVC streams without transcoding. Inputs transcribed captions from text, .scc, .srt, .cap, or .mcc files. Produces streams compliant with broadcast standards. Saves captions from captioned MPEG files as text or .scc formats. Displays video files with accurate overlay of CEA-708 and/or CEA-608 closed captions for quality assurance. Supports caption replacement, removal, updating, and debugging. Transcodes MXF captioned files to MPEG-2 Transport streams with embedded captions.

Expert-HD®

Encodes Ultra HD and larger frame sizes into MPEG, AVC, and HEVC video. Inputs a variety of discrete image and file formats. Comprehensive control of encoding parameters. Inputs and supports a wide variety of custom segment encoding via parameter changes during encoding. Comprehensive control of encoding parameters. Supports custom segment encoding via parameter changes during encoding.

Expert-Mux

Transport multiplexing of HEVC, AVC, or MPEG video with DTS, AAC, AC3, DTS or MPG audio. Program and system multiplexing of MPEG video and audio files. Includes drag and drop graphical interface to create and run large batch multiplexing jobs. Splits multiplexed streams into their video and audio components.

■ Software Development Kits

Easy to license and use library that includes functionality of all of our products

Expert Workshop®

SDK powers all of our stand alone and plug-in products. All processing capability of MPEGRepairHD, Expert-Caption, and Expert-HD are included in this code. The SDK is available for 64bit and 32bit Windows, Linux, and MacOS systems.

C-Caption

Accomplishes the interpreting and rendering of CEA-708 and CEA-608 captions onto a display context. Also converts CEA-608 captions to CEA-708 captions.

■ Plug-Ins

Export MPEG video with embedded captions directly from the timeline of the Adobe Premiere

Expert-Broadcast

PixelTools export plug-in to Adobe Premiere and Adobe Media Encoder. Outputs broadcast complaint transport and program streams with embedded CEA-708 and CEA-608 captions. Inputs captions from .scc, .mcc, .srt, or .txt files. Utilizes the high quality MPEG encoding and multiplexing engine to provide the ultimate quality output streams.

■ Watermarking

Ideal for video content protection

MPEGEscort®

Patented watermarking technology that adds invisible data to an existing MPEG stream without changing its size or bit-rate. User selectable private key supports multiple layered marking.

Our Products

All PixelTools products - Run automatically via batch commands/available as SDKs for Windows, Mac and UNIX environments / Comprehensive users manual and online help / Include 6 months of support and upgrades / Easily configured to be launched with a specific file and parameter configuration / Produce log files at operating completion for quality monitoring.

PixelTools was founded in 1994 with the goal of providing the most advanced and comprehensive encoding tools for MPEG compressionists. We have assisted thousands of customers with their encoding issues. Our solutions are encapsulated in our encoding and analysis tools used by major film studios, research corporations, government organizations, and post-production companies.

What is in your tool box?

www.pixeltools.com