

- 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?

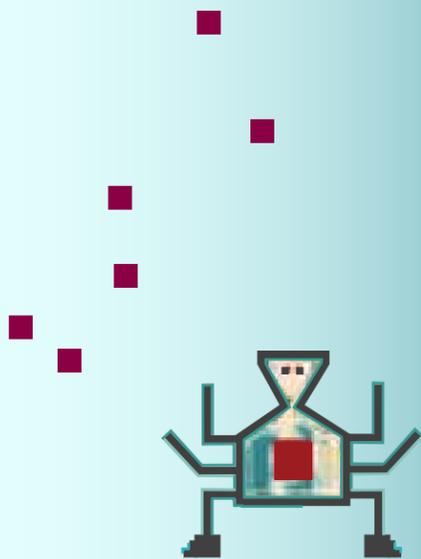
- Private stream extraction
- Stream splitting
- Stream analysis and compliance report
- Instant stream properties
- Detailed stream analysis
- VBV fullness log
- Graphical display of motion vectors, MQuants and block type overlays
- Stream trim, cut paste replace

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, 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 HD-TV and HD-DVD markets. Our MPEG 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 500mbps
- 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
- Invisible 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 the most advanced and comprehensive MPEG software encoding tools on the planet



## Encoders

Our highly optimized encode engine takes advantage of multi-core, multi-processor SSE3 systems. The output streams are compliant with all current HD and SD standards.

### MPEGRepairHD

Flagship product containing HD encoder, decoder, analyzer and stream modification tools. The Swiss Army knife of MPEG, MPEGRepairHD is the must have for those in the MPEG video business. Built in decoder is coupled with the encoder to provide real time MPEG transcoding including reformatting, resizing, and logo insertion. The newly added H.264 encoder provides conversion between any MPEG format and H.264. Stream analysis and compliance functions store stream information in a log file. MPEGRepairHD can now update and add stream headers with out re-encoding. This time saver enables you to add Closed Captioning, SCTE Line 21 CGMS data, or Pan and Scan data or update the streams time code, aspect ratio, frame rate, etc 100 times faster than real time.

### ExpertHD

Faster than real-time 1920 x 1080 IPB and HD encoding module of MPEGRepairHD. Optional real-time video capture input.

### ExpertH264

Utilizes the highly compliant H.264 reference code with the standard PixelTools user interface. Encodes from most video file formats including QuickTime, AVI, TGA, BMP, and YUV. Output Simple or Main profile H.264 elementary streams.

### TransMux

Multiplex and split transport and program streams. Our utility tool can multiplex two video and two audio streams into one program stream. The audio capability includes MPEG, DTS and AC3. This highly rated tool is the best for replacing audio tracks on transport streams

## Software Development Kit

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

Our ExpertWorkshop library powers all of our MPEG encoders, utilities, and plug-ins. Our SDK consists of a multi-threaded SSE3 optimized PC, Universal MAC, and UNIX library providing faster than real-time HD MPEG encoding. Sample source code for Microsoft Visual Studio and Macintosh XCode with user manuals are included. ExpertWorkshop licenses are available in single and large quantity to support in-house embedded MPEG projects through OEM reselling.

## Plug-Ins

Export HD transport streams directly from the timeline of Premiere or Final Cut Pro HD

### HDPProQT plug-in - Universal QuickTime component for Intel Mac

Empower any QuickTime supported application with HD MPEG transport export output. Updated component outputs 1920x1080 HD transport and program streams at bit-rates up to 100 mbps directly from the Final Cut time line.

### HDPPro plug-in - Now exports H.264 from Premiere.

Updated component outputs 1920x1080 HD transport and program streams at bit-rates up to 100 mbps directly from the time line. Now includes H.264 export option

## Watermarking

Ideal for video content protection.

### MPEG Escort

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](http://www.pixeltools.com)