



Envivio Convergence Series 4Coder 8500SE

Offline MPEG-4 AVC/H.264 High Definition Software Encoder for Broadcast Video

High definition (HD) video is enabling broadcasters to offer their customers the ultimate in television picture quality, while new applications such as IPTV are also enabling them to increase the revenue potential from their existing content. However these new applications require that broadcasters deliver content to service providers in a format ready for distribution and replay. The narrow-bandwidth infrastructure used in distribution networks such as cable, DSL and satellite, combined with the desire to increase the amount of services offered over those networks, has created a demand for more efficient compression while preserving the highest possible video quality.

The Envivio 4Coder™ 8500SE is a broadcast quality high definition offline software encoder ideal for preparing video for digital television services. MPEG-4 AVC/H.264 compression ensures the highest quality video at bit rates between 20 kbps and 20 Mbps and resolutions at 720p or 1080i. A file-based encoding system, the 4Coder supports a wide range of input formats and generates optimized files in the formats required for IPTV on demand video services. With advanced features such as automated batch encoding and SNMP monitoring, the 8500SE is a broadcast grade system which can manage large quantities of video with minimal effort. And with streamlined interface controls that only display relevant setting options and optimization for advanced multiprocessor platforms, the software keeps production time and costs to a minimum.

Features

- MPEG-4 Advanced Video Coding (AVC/H.264) Main Profile, and MPEG-4 Advanced Simple Profile (ASP) video encoding
- MPEG-2 AAC, MPEG-4 AAC and HE-AAC audio encoding
- Imports files stored in a variety of formats including AVI, MOV, DV and MPEG-2*
- Batch processing for automated production of large quantities of content
- Supports open standards-based specifications including ISDB-T, ISMA Profile 1, 2 (used by Apple Video iPod), 3 and 4, and DVB Capability D, E.

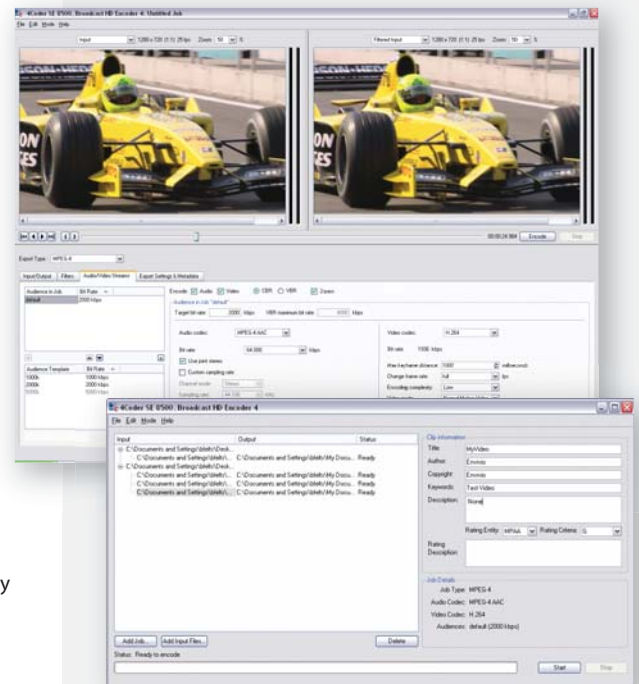
** with appropriate third party plug-ins*

Product Highlights

- File-based MPEG-4 AVC/H.264 software for the highest quality offline encoding of high definition content at 720p or 1080i
- Broadcast quality video at up to half the bit rates of MPEG-2 encoding systems
- Advanced pre-processing for outstanding encoding quality
- Software optimized for advanced multi-processor platforms for efficient production

Applications

- Video on Demand (VOD)
- Video Archiving





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Input

File import (AVI, MOV, DV*, MPEG-2*)
Support PAL, NTSC resolutions
720p and 1080i resolutions

Output

File Output

Raw Elementary Stream, MPEG-4 file, MPEG-2 TS file

Encoder

Video

MPEG-4 ASP levels 0-5 (HD resolution)
H.264 Main profile level 1-4
Data rate: 20 kbps to 20 Mbps

Audio

MPEG-4 Advanced Audio Coding Low Complexity (AAC-LC)
MPEG-4 AAC High Efficiency (HE-AAC)
MPEG-4 AAC High Efficiency with Parametric Stereo (HE-AAC v2)
MPEG-2 Advanced Audio Coding (AAC)
MPEG-2 AAC High Efficiency (MPEG-2 HE-AAC)
MPEG-2 AAC High Efficiency with Parametric Stereo (MPEG-2 HE-AAC)
Data rate: 8 to 192 kbps

Supported Standards

ISDB-T
ISMA Profile 1, 2, 3, 4
DVB capability D, E

Advanced Processing

Prefilters

Video adjustments (brightness, contrast)
Frame resizing
Frame subsampling
Noise filtering
Inverse Telecine/Deinterlacing
Cropping

Codec

Scene change detection with adaptive GOP
Various aspect ratio handling
Support for interlaced mode encoding
Double-pass encode

Output

MPEG-4 file with optimized hint track for video server
Progressive download
Advanced output rate control with bandwidth smoothing

Advanced Features

Optimized for multiprocessor platforms
Fast/High quality encoding modes
Metadata insertion
Batch mode/Preview mode
Encoding/Filtering preview panels
Command line
Presets and advanced configurations
Encoding statistics
Advanced codec parameters for fine quality tuning

Supported OS

Windows XP

Recommended Hardware

Intel Dual Xeon, 3.2 GHz, 256 MB RAM

Minimum Hardware

Intel Pentium 4, 2.4 Ghz, 256 MB RAM

** with appropriate decoder filters*

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