

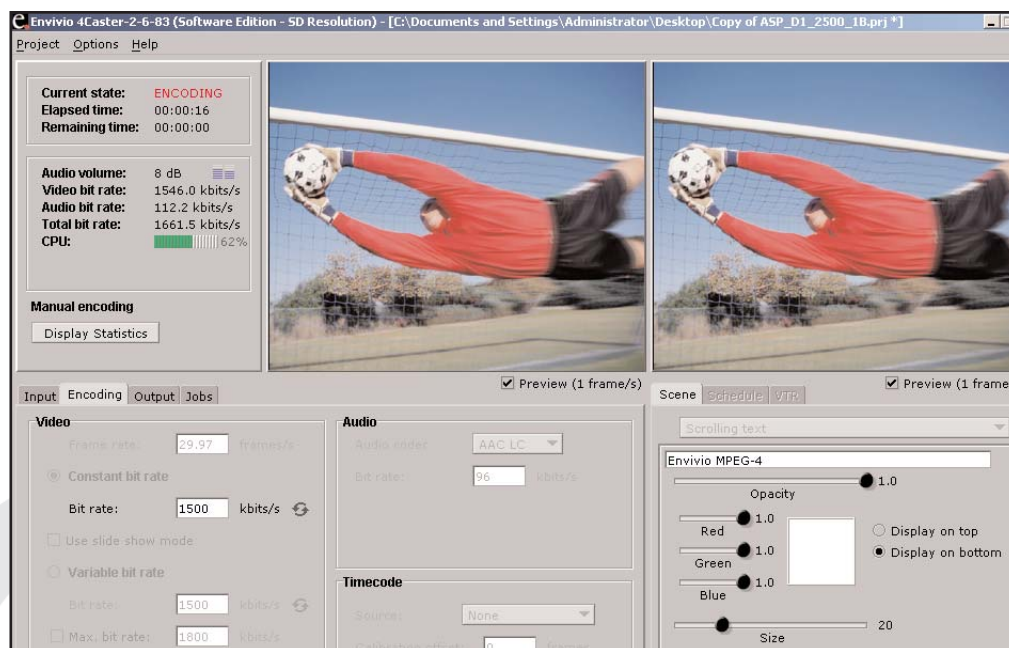


4Caster™ - Software Edition

Real-Time MPEG-4/H.264 Encoder for Media Transport and IPTV Solutions

Solution for encoding content in real time and simultaneously creating archive or VOD assets

- Real-time ISMA compatible MPEG-4 encoding
- Live audio-video source or pre-recorded source
- Live broadcast session ready to go on-air
- Save to an MPEG-4 file for later streaming or local playback



World's First DVD Resolution Realtime MPEG-4 Encoder

Envivio 4Caster™ SE captures one video stream and its associated audio, encodes it into MPEG-4, and streams the resulting data in RTP packets over an IP network, either in multicast or unicast mode. Envivio 4Caster SE comes in two editions - the Standard Edition and the full-featured Professional Edition.

Full-Featured Solutions

Project Management: Project management features include creating a new project, saving a project, and opening an existing project. A set of templates is provided to simplify project creation. Templates are provided for 56K modems, ISDN, DSL, T1 and broadband targets.

Media Push: Text, 2D graphics, and images can be streamed live during a session. Media push is highly flexible, and additional media types can be handled through a plug-in mechanism.

Previews: Input/encoded video previews. Input sound level monitoring.

Streaming: 4Caster SE uses RTP and RTCP on top of UDP. Streaming is performed in unicast and multicast modes.

Applications

- Digital satellite news gathering
- Video contribution over IP and ATM networks
- Broadband IPTV distribution
- Cable TV
- Direct broadcast satellite

Technical Specifications

	4Caster SE 1000	4Caster SE 3000
Resolutions Supported	ASP up to CIF (352 x 240/288)	ASP up to SD (720 x 480/576)
Video Encoder	MPEG-4 ASP levels 0-5 MPEG-4 SP levels 0-3 ISMA Profile 0 and Profile 1	MPEG-4 ASP levels 0-5 MPEG-4 SP levels 0-3 ISMA Profile 0 and Profile 1
Audio Encoder	MPEG-4 Advanced Audio Coding 8 to 384 kbps (96 kbps for CD quality)	MPEG-4 Advanced Audio Coding 8 to 384 kbps (96 kbps for CD quality)
Advanced Processing	Low delay mode Motion-compensated temporal filtering and deinterlacing Error resilience (MPEG-4) Scene change detection with keyframe (I-Frame) insertion Frame resizing from full to 3/4, 2/3, 1/2, or 1/4 resolution	Low delay mode Motion-compensated temporal filtering and deinterlacing Error resilience (MPEG-4) Scene change detection with keyframe (I-Frame) insertion Frame resizing from full to 3/4, 2/3, 1/2, or 1/4 resolution
Data Rates Supported	20 kbps to 2 Mbps	20 kbps to 6 Mbps
Minimum Hardware Requirements	Intel Pentium IV 1.7 GHz; 256 MB RAM; DirectShow 8.0 compatible video capture card (Digital Rapids 500 recommended); Ethernet adapter	Intel bipro Xeon 2.8 GHz; 256 MB RAM; DirectShow 8.0 compatible video capture card (Digital Rapids 1500 recommended); Ethernet adapter
Operating Systems Supported	Windows 2000 Professional, Windows XP Professional	Windows 2000 Professional, Windows XP Professional
Advanced Features	<p><i>Monitoring:</i> Allows dynamic monitoring of encoding and streaming, either locally through a graphic user interface or remotely through an SNMP interface. A simple and easy to use SNMP supervisor is also available.</p> <p><i>Jobs Programming:</i> The job scheduler provides an easy way to create and launch encoding tasks at a specified time. The scheduler supports periodic task launching.</p> <p><i>VTR Control:</i> Control professional VTR through an RS-422 remote protocol to synchronize play/stop on the VTR side and start/stop on the 4Caster SE side. Offers basic VTR control, such as rewind, fast forward, pre-roll, current timecode, and go to timecode.</p> <p><i>Remote Control:</i> A command-line remote control is provided to remotely manage the Live Broadcast.</p>	

Standard Features

Video Formats

- NTSC-M, NTSC-J
- PAL-BDGH, PAL-M, PAL-N
- SECAM

Audio Formats

- Mono or stereo
- PCM 16- and 8-bit sample sizes
- Supported sample rates: 48 kHz, 44.1 kHz, 32 kHz, 24 kHz, 22.05 kHz, 16 kHz, 12 kHz, 11.025 kHz, and 8 kHz

Capture Cards Supported

- Digital Rapids
- Osprey
- Pinnacle
- Winnov

Outputs and Compliance

Envivio 4Caster SE produces output that can be played by EnvivioTV and other devices that are compatible with the MPEG-4 ISMA 1.0 specification level 1 (Internet Streaming Media Alliance)

Envivio 4Caster SE outputs can be broadcast through a digital TV network (MPEG-2 Transport Stream) over an IP network, or optionally saved as MPEG-4 files

For more information, visit:
www.envivio.com

