

MPEG Video Soars to New Heights

The Osprey-2000 enables developers and broadcasters to take flight with professional quality MPEG applications. Blowing away the ceiling on price and performance, Osprey is poised to set a new standard for video capture and encoding.

Combining professional quality MPEG video with a full array of APIs for developers, the possibilities are endless with the Osprey-2000. Osprey Programming Interface (OPI), DirectShow Filters and Video For Windows (VFW) API headline the list of APIs that will allow both flexibility combined with interoperability.

Independent Operating Modes

The Osprey-2000 can act as three devices in one:

- **Capture/Preview** – Preview is defined as viewing video in a window on the computer monitor and listening to audio via the audio output jack. Preview can be utilized by itself or during audio/video capture, encode and decode. Capture is defined by the providing of audio/video data to a host application. This application could save the data to disk (i.e. AVI based capture), further process the data (i.e. encode into the Real or WindowsMedia format), or other such tasks. The capture feature is also possible during decoding which makes MPEG transcoding possible.
- **Encode** – MPEG encoding is available from any of the input sources, including DV, which makes DV to MPEG transcoding possible. Encoded MPEG streams are moved to a host application where the data can be archived to disk for later on demand retrieval or further processing (such as transcoding into another streaming format), streamed over a network, or even possibly authored onto a DVD. One may optionally preview the material being encoded by using the audio/video preview feature.

- **Decode/Transcoding** – The decoding of an MPEG source can be either viewed using the preview feature or recaptured using the capture feature. The video during decode may be previewed either on the computer monitor or on an externally NTSC/PAL monitor using the composite/S-Video output jacks. Using the capture feature with MPEG decode, it is possible to transcode MPEG to another streaming media format such as Real or Windows Media.

Hardware MPEG Encode/Decode Formats

Compression Formats

MPEG-1 hardware encoder/decoder

- MPEG-1 Elementary and system video streams
- MPEG-1 Layer II audio

MPEG-2 4:2:0 hardware encoder/decoder

- MPEG-2 MP@ML elementary, program and transport streams

Computing Platforms

- Windows NT
- Windows 2000

Application Programming Interfaces

- Osprey Programming Interface (OPI)
- DirectShow Filters
- Video For Windows (VFW) interface

Performance for the Real World

Beyond the sheer numbers, performance means doing what users want, at the speed in which they want to do it, and with a high level of quality. The more the developer can control the performance the better. The Osprey-2000 gives the developers the flexibility to configure peak bitrate, image quality and other factors that impact performance.

The Osprey-2000 handles images up to D1 resolution (704x480 for NTSC, 704x576 for PAL) and

offers scalable bitrates up to 8Mbps for professional quality video. It provides MPEG-1 elementary and system streams in addition to MPEG-2 elementary, program and transport streams in both constant bitrate and variable bitrates modes.

Hardware/System Specifications

- 32-bit/5-volt PCI card
- Full PCI Rev. 2.1 compliance
- FCC Class B certification
- UL and CE compliant

Software

- VFW Interface, Kernel Driver, Capture Driver, Documentation
- Previewing Application
- MPEG Encode/Decode Applications
- DirectShow
- User's Guides for Windows Software

Customized to Fit Your Needs

Developers can use ViewCast.com's OPI SDK or the DirectShow filter to allow for custom development and control of the Osprey-2000.

ViewCast.com can provide tailored versions of the Osprey-2000 hardware and software for ISVs and OEMs.

Get the Big Picture

To find out how the Osprey-2000 and other ViewCast.com products can be your gateway to the world network video, contact:

ViewCast.com

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Model Breakdown by Feature and Input Type

	MPEG Encode	MPEG Decode	Analog composite, S-Video, unbalanced & balanced audio	DV (IEEE1394) input (video and audio)	SDI video, SDI embedded audio, external AES/EBU	Outputs: Composite, S-Video, unbalanced audio
C	X	X	X			X
C Pro	X	X	X		X	X
C DV Pro	X	X	X	X	X	X
D DV		X	X	X		X
D Pro		X	X		X	X
D DV Pro		X	X	X	X	X

**Osprey-2000:
One card.
The whole, wide
world of MPEG
network video.**