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## Immediate Release

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NAB Booth SU4928

### **DVEO to Highlight Low Latency H.264 HD Encoder/Decoder at NAB 2008 MAKO-HD™ Achieves End-To-End Latency of Less Than 70 Milliseconds**

**San Diego, CA** -- DVEO, the broadcast division of CMI, will demonstrate HaiVision's low latency MPEG-4 HD or SD encoder/decoder at the NAB (National Association of Broadcasters) Show in Las Vegas, April 14-17, at Booth SU4928.

Designed for telepresence, medical, and interactive broadcasting, DVEO's MAKO-HD™ is a real time, 4:2:2, H.264 HD or SD encoder/decoder system. It achieves end-to-end latency of less than 70 milliseconds, making it one of the lowest latency high definition H.264 codecs available. Most broadcast encoders have latencies above 500 milliseconds.



**MAKO-HD  
Low Latency H.264 Encoder/Decoder**

H.264, also called MPEG-4 Part 10, or MPEG-4 AVC, is a video compression standard that uses less than 60% of the bandwidth of MPEG-2 video, making it much more efficient for streaming video over the Internet.

“Broadcasters, webcasters, and A/V systems integrators will want to visit our NAB booth to see the MAKO-HD in action,” said Laszlo Zoltan, Sales Manager for DVEO. “It’s ideal for broadcasting, video conferencing, IPTV, and streaming HD content – the latency of less than 70 milliseconds is unnoticeable, and the HD video quality is excellent.”

The MAKO-HD delivers HD or SD video and super wideband audio across IP networks, and provides full high resolution HD video at bandwidths from 256 kbps to 10 Mbps. It features a built-in decoder for two-way video communication.

The MAKO-HD supports 1080p, 1080i, 720p, 480p, and 480i formats. The encoder has two input ports -- one for HD-SDI/SD-SDI with embedded digital audio, and one for analog video (RGBHV/YPbPr) and audio. The decoder has two output ports -- HD-SDI/SD-SDI with embedded digital audio, and analog video -- RGBHV/YPbPr, or DVI. Both types of inputs and outputs can be compressed at the same time, at adjusted frame rates.

Audio and video are synchronized to within 20 milliseconds or less. The system also features web-based management, closed captioning support, video noise filtering and reduction, fade and zoom effects, and text or logo insertion.

### **Supplemental Information for Press Release**

#### **MAKO-HD Features:**

- MPEG-4 AVC / H.264 encoder and decoder in one system
- End to end latency of 70 milliseconds
- INVITATION Videoconference Interoperability
- Logical multicast / multiple unicast
- CPCI based for Telecom grade reliability
- Robust and extensible frame & blade design
- Web, CLI, and SNMP interfaces

- Supports 1080p, 1080i, 720p, 480p, 480i
- Full frame rate video
- 256 kbps to 10 Mbps video bitrate
- Additional RGBHV input up to 1280x768 60Hz
- Input/Output 1: HD-SDI or SDI, embedded digital audio
- Input/Output 2: Analog video (RGBHV/YPbPr) and audio
- IP Output: 10/100BaseT Ethernet
- Separate four channel analog audio
- Unique Dual Stream - 2 Channel Encoding (Video & RGB)

**Suggested Retail Price:**

MAKO-HD: \$25,995 U.S.

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**About CMI and DVEO**

CMI, founded in 1982, is a privately held company headquartered in San Diego, California. DVEO, the recently formed Broadcast Division of Computer Modules, Inc., sells digital video and high definition television (HDTV) products to the top television broadcast companies throughout the world.

For more information on CMI and DVEO, please contact Rebecca Gray at +1 (858) 613-1818 or [rebecca@computermodules.com](mailto:rebecca@computermodules.com). To download DVEO's press releases and product images, visit the news section at <http://www.dveo.com/>.

**About HaiVision Systems Inc.**

HaiVision Systems Inc. is a private company dedicated to improving the way people live and work through the use of advanced network video technology. HaiVision's interactive products are used in the foremost telepresence suites, boardrooms, and continuous presence distance education systems worldwide. They are used as well in the medical field supporting information and service delivery within hospital campuses and across nations. HaiVision's streaming products are also used extensively for video backhaul and distribution in broadcast and IPTV applications. Please have a look at the product information, case studies, videos, and file samples available in the file download area of our web site.

For further information, please contact:

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