



For Immediate Release

Haivision Makito™ H.264 HD Encoder Supports Immersive 3D HD Neurosurgery Training Model at St. Vincent

St. Vincent Infirmiry Medical Center Employs Makito Encoder With TrueVision® 3D Visualization Systems to Extend Viewing of Real-Time Microsurgical Procedures to Remote Conference Rooms for Training Clinicians.

MONTREAL and CHICAGO — Aug. 18, 2010 — Haivision Network Video today announced that it has collaborated with TrueVision®, the leader in digital 3D visualization for microsurgery, to enable a unique 3D “Video over IP” streaming solution at St. Vincent Infirmiry Medical Center in Little Rock, Ark. World-renowned neurosurgeon Dr. Ali Krisht is using the Haivision Makito™ H.264 HD encoder along with a TrueVision TrueWare™ 7.0 3D visualization system and TrueZoom™ 3D surgical camera to stream real-time microsurgery images to remote conferencing centers for teaching staff and clinicians around the world. The system debuted at the International Durability and Efficiency in Microneurosurgery Conference.

“St. Vincent is home to a world-renown neuroscience center where Dr. Krisht is recognized internationally for his pioneering work and expertise across a variety of neurological subspecialties,” said Peter Maag, senior vice president at Haivision. “His knowledge and experience attracts some of the field’s most talented clinicians to Arkansas, and the hospital’s new 3D Video over IP delivery model, based on our Makito™ H.264 HD encoder, provides flexible, live delivery of stereoscopic images to facilitate immersive, state-of-the-art education and training in the latest neurosurgical care.”

TrueVision technology enables surgeons to view and record microsurgery in 3D via a heads-up 1080p display rather than through a microscope. The Haivision Makito H.264 HD low-latency encoder extends the utility of this technology by enabling surgeons, residents, and other staff members outside the operating room to view live surgery as if they were performing it themselves through a microscope, thus enhancing the educational experience. 3D images are captured during surgery using a single Makito system to encode the TrueVision DVI output — a left/right 2D

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mirrored image at 1080p60 is switched to 1080p30 3D to preserve stereo depth — and then images are sent to a conference room in another hospital building across campus. A high-performance Alienware laptop is equipped with Haivision's HaiPLAY™ soft player to decode the real-time stream with an output at 1920x1080p resolution. The streamed video is displayed on two 46-inch JVC 3D HD LCD displays, specially modified by TrueVision to enable compositing of the 2D left/right mirror images for 3D viewing with 3D glasses.

“The 3D medium offers significant benefits over 2D imagery as a teaching tool, as well as in remote diagnosis and mentoring,” said A. Burton Tripathi, vice president of product development at TrueVision. “The use of 3D in microsurgery applications demands a high level of rigor in portraying the fine gradations that can indicate problems such as a tumor, cataract, or diseased cornea. The Haivision Makito encoder meets these stringent visualization requirements, delivering excellent video quality that enables advanced training at St. Vincent and offers great promise for deployments in more demanding remote healthcare applications.”

The Makito allows St. Vincent to distribute 3D HD video throughout the organization cost-effectively and without reservation. The encoder's highly efficient H.264 compression standard supports all HD resolutions and frame rates up to 1080p60, and its HiLo-Streaming™ feature enables creation of both a full-resolution, full-bandwidth stream and a reduced-resolution, low-bandwidth stream simultaneously. With advanced features such as traffic shaping, forward error correction, and AES encryption, the Makito ensures that video content is consistent in quality and absolutely secure even in multicast environments.

Complete information on Haivision products, including recent case studies and application notes, is available within the download center at www.haivision.com.

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About TrueVision® 3D Surgical

TrueVision® 3D Surgical is the leader in digital 3D visualization for microsurgery. Based in Santa Barbara, Calif., the company has developed and patented an intelligent, real-time, 3D surgical visualization platform. The company is developing a suite of 3D guidance applications for microsurgery that is expected to generate greater patient satisfaction. Visit www.truevisionsys.com for more information.

About Haivision Network Video

Based in Montreal and Chicago, Haivision Network Video is a private company and a world leader in delivering the most advanced and intelligent IP video networking technology. Haivision's products are

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deployed worldwide within the foremost Fortune 100 companies; in the most rigorous military and defense applications; in state-of-the-art healthcare facilities for video collaboration and training; in highly renowned educational institutions for IPTV, teaching, and remote learning; in the most efficient interactive broadcast applications; and within the world's leading TelePresence suites. Haivision distributes its products through value-added resellers, system integrators, distributors, and OEMs worldwide.

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For further information, please contact:

Haivision Contact:

Anna Kozel
Marketing and Communications Manager
Haivision Network Video
Tel: +1 (514) 334-5445
E-mail: anna@haivision.com

Agency Contact:

Netra Ghosh
Wall Street Communications
Tel: +1 (801) 266-0077
E-mail: netra@wallstcom.com

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