Human Monitoring Announces Full HD H.264 Encoder Leveraging DaVinci™ Technology from Texas Instruments

*Human Monitoring Ltd. (HM), a leading provider of advanced video and image processing solutions for embedded platforms and PCs, today announced an advanced Low Latency Full HD, 1080p 30 frames per second, H.264 Encoder based on DaVinci™ technology from Texas Instruments Incorporated (TI)*

Birmingham (PRWEB) May 12, 2009 -- Human Monitoring Ltd. (HM), a leading provider of advanced video and image processing solutions for embedded platforms and PCs, today announced an advanced Low Latency Full HD, 1080p 30 frames per second, H.264 Encoder based on DaVinci™ technology from Texas Instruments Incorporated (TI)

HM's Matisse™ Encoder was developed with the support of the BIRD Foundation and culminates the successful completion of around $2 million, multi-year development project carried out by Human Monitoring and TI.

Available today on TI's DaVinci™ technology-based TMS320DM6467 digital media processor, the new encoder delivers increased quality and performance of real-time video encoding which is required for advanced consumer, security, defense and broadcast applications.

HM's new Matisse™ 1080p Encoder is XDM-compliant and supports the latest H.264 standard, which delivers up to 50 percent bit rate advantage over MPEG-2. In addition, the encoder's enhanced features make it ideal for remote gaming, wireless indoors video distribution, video-conferencing and RT surveillance and defense applications.

HM's Matisse™ enables sub 70 millisecond (Msec) end-to-end transmission of full HD H.264, using strict CBR.

As in its complete line of H.264 encoders, HM implemented its Ultra Wide Range Motion Estimation on the DaVinci™ technology based TMS320DM6467 processor. Matisse™ is therefore capable of handling effectively ultra fast camera motion, while other encoders degrade their quality in these cases. The encoder's ability to estimate motion within the range of over 200 pixels frame-to-frame allows it to preserve high quality coding. In addition, HM's patent-pending rate control supports ultra low bit rates, enabling reduced frame rate video transmission at rates considered improbable for such transmission.

"The capabilities of our new encoder allow vendors and system designers to better capture and transmit real-time video, which is critical for addressing the needs of a variety of markets," said Meir Kollmann, President and CEO, Human Monitoring, Ltd. "HM's low latency solution combined with the flexibility and robustness of TIs DaVinci™ technology allows OEMs to easily implement system upgrades and quickly add new features throughout the lifetime of their products. "We are grateful to the BIRD Foundation, for enabling our growing cooperation with TI, both in research and in marketing" added Meir Kollmann.

TI's TMS320DM6467 digital media processor is tuned to deliver both video encode and decode functions in a DSP-based, system-on-chip (SoC) solution. It includes video encoding capabilities through a dedicated video processing front end capable of capturing various digital formats. The DM6467 performs advanced encoding and compression, as well as video streaming and analytics to a central location. The processor includes a TMS320C64x+ core and an ARM926EJ-ST™.
"TI offers the performance, low power and flexibility to deliver real-time video content with little to no latency, and we're excited to expand our cooperation with HM to enhance capabilities to address the H.264 standard," said Rajesh Pal, manager of video infrastructure solutions, TI. "The enhanced quality and images that our technology enables promise to fuel growth in commercial applications where fast, accurate and stable video images are imperative."

Matisse 1080p Encoder beta version is already available for evaluation to selected customers, and will be generally available from July 2009.

For more information on HM's encoder technology visit http://www.human-monitoring.com/mattisse.html For more information on TI's DaVinci technology visit www.ti.com/davinci.

About Human Monitoring Ltd. (HM)
HM is a leading provider of video and Image processing solutions embedded platforms and PC. The company excels in efficient video algorithms consuming lower processing-power and memory resources while maintaining high quality and performance-levels.

Amongst HM's products are H.264 Encoders, Video Stabilizers, Panoramic-Stitching, Image Compression (based on H.264 video codec) and Motion-Compensated De-Interlacer; all of which are based on the company's intellectual property and patent-pending technology.
HM's Corporate Headquarters is located in Israel, Tel Aviv area, and sales are preformed globally with a network of partners, semiconductor vendors and distributors.
www.human-monitoring.com

About the Texas Instruments Developer Network
Human Monitoring is a member of the TI Developer Network, a community of respected, well-established companies offering products and services based on TI analog and digital technology. The Network provides a broad range of end-equipment solutions; embedded software, engineering services and development tools that help customers accelerate innovation to make the world smarter, healthier, safer, greener and more fun.

About the BIRD Foundation
The BIRD Foundation's mission is to stimulate, promote and support industrial R&D of mutual benefit to the U.S. and Israel. BIRD supports approximately 20 projects annually with a total investment of around $11 million per year. To date, BIRD has invested over $245 million in 740 projects, which have produced sales of over $8 billion. Since the establishment of the Foundation 30 years ago, the accumulated repayments have totaled $82 million.

All trademarks are the property of their respective owners.

###
Contact Information
On Sobol
Human Monitoring
http://www.human-monitoring.com
+972-3-901-3808 ext. 139

Online Web 2.0 Version
You can read the online version of this press release here.