

Trade Press Release

CAE Healthcare announces first mixed reality ultrasound simulation solution with Microsoft HoloLens

Orlando, U.S. & Montreal, Canada – January 28, 2017 – On the eve of the International Meeting on Simulation in Healthcare (IMSH) in Orlando, Florida, the largest medical simulation conference, CAE Healthcare announced the release of CAE VimedixAR, an ultrasound training simulator integrated with the Microsoft HoloLens, the world’s first self-contained holographic computer. CAE Healthcare will be the first company to bring a commercial Microsoft HoloLens application to the medical simulation market.

VimedixAR delivers an unprecedented simulation-based training experience, allowing learners to interact and move freely within a clinical training environment that is augmented with holograms. For the first time, students will be able to examine 3D anatomy inside the body of the Vimedix manikin. As learners practice scanning an animated heart, lungs or abdomen, they will observe in real-time how the ultrasound beam cuts through anatomy to generate a ultrasound image.

Learners can elevate the VimedixAR hologram above the body to gain an understanding of human anatomy and how its circulatory, respiratory and skeletal structures are integrated. The hologram of the heart, for example, can be isolated and enlarged, rotated, and turned as it floats at eye level. If a learner is struggling to understand a concept, he or she will be able to walk around the hologram to gain a different perspective.

“We are on the cusp of a new frontier in simulation for healthcare,” said Dr. Robert Amyot, president of CAE Healthcare. “Augmented and virtual reality can accelerate learning and provide shared training experiences in a more immersive and engaging clinical learning environment. Our engineering team is just beginning to explore possibilities with the Microsoft HoloLens, and we look forward to offering it as a key training solutions technology to our industry partners.”

The CAE Healthcare team has already begun to develop training prototypes with the medical device industry that incorporate the Microsoft HoloLens and are expected to accelerate professional education for new technologies. With CAE Healthcare’s virtual views of human anatomy and the Microsoft HoloLens, physicians will be able to practice placing cardiac devices or implants with speed and precision before they perform procedures on real patients.

“At Microsoft our goal with HoloLens and mixed reality is to help customers visualize and interact with 3D content in ways that offer new possibilities for creation, collaboration and consumption of information,” said Lorraine Bardeen, General Manager, Microsoft HoloLens and Windows Experiences. “It is inspiring to see how CAE is integrating HoloLens into its healthcare simulation portfolio, and we are excited about the opportunities mixed reality presents to revolutionize the future of patient education and training through the use of holographic computing.”



The VimedixAR module with Microsoft HoloLens will be available for presale and during the IMSH conference and online. For more information, visit caehealthcare.com/hololens

About CAE Healthcare

CAE Healthcare offers cutting-edge learning tools to healthcare students and professionals, allowing them to develop practical experience through risk-free simulation training before treating real patients. CAE Healthcare's full spectrum of simulation solutions includes surgical and imaging simulation, curriculum, the LearningSpace audiovisual and center management platform and highly realistic adult, pediatric and baby patient simulators. Today, approximately 9,000 CAE Healthcare simulators and audiovisual solutions are in use worldwide by medical schools, nursing schools, hospitals, defence forces and other entities. www.cae.com/healthcare

About CAE

CAE (NYSE: CAE; TSX: CAE) is a global leader in the delivery of training for the civil aviation, defence and security, and healthcare markets. We design and integrate the industry's most comprehensive training solutions, anchored by the knowledge and expertise of our 8,000 employees, our world-leading simulation technologies and a track record of service and technology innovation spanning seven decades. Our global presence is the broadest in the industry, with 160 sites and training locations in 35 countries, including our joint venture operations, and the world's largest installed base of flight simulators. Each year, we train more than 120,000 civil and defence crewmembers, as well as thousands of healthcare professionals.

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