ForgeFX Simulations & MRIGlobal Develop an Augmented Reality CBRN Detection Device Training Simulator for US Military

Announcing the release of the Teledyne FLIR identiFINDER R440 Enhanced Warfighter Augmented Trainer

HoloTrainer: Augmented Reality CBRN Detection Device Training Simulator

SAN FRANCISCO, CALIFORNIA, UNITED STATES, May 31, 2023 /EINPresswire.com/ -- The U.S. Department of Defense Joint Program Executive Office for Chemical, Biological, Radiological and Nuclear Defense (JPEO-CBRND) has contracted MRIGlobal and ForgeFX Simulations to develop an augmented reality (AR) CBRN detection device training simulator. The Enhanced Warfighter Augmented Trainer (EWAT), or HoloTrainer, is a training simulator designed specifically for the Joint Project Manager Chemical Biological Radiological Nuclear Special Operations Forces (JPM CBRN SOF) to provide first responders and warfighters with the best possible training to identify hazardous materials and situations accurately.

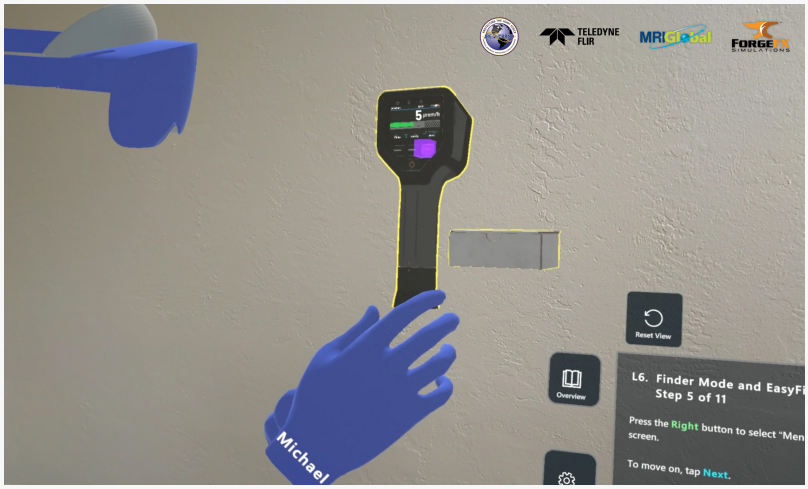
> This innovative augmented reality training simulator marks a revolutionary leap in the field of CBRN device training, bringing the most realistic and collaborative learning experience to end users."
>
> *Greg Meyers, CEO of ForgeFX Simulations*

The training simulator program is powered by a Microsoft HoloLens 2, projecting holographic interactive digital twins of physical devices. The application includes guided training lessons for all major functions the device performs, with voice-over-narration and text instruction. Users can learn at their own pace, by doing actual tasks and steps needed to master use of the real-world device. In addition, the HoloTrainer allows users to train with physical devices, seeing holographically projected animations and instructions on the heads-up-display (HUD) in front of them, allowing them to keep their hands on the device at all times. The application also supports networked multi-user

connectivity, enabling trainers and trainees to work together remotely as if in the same room.

Starting today, the Teledyne FLIR identiFINDER® R440 will be available for trainees within the application. Teledyne FLIR Defense, makers of the identiFINDER series of field-proven handheld radiation detectors, is one of the device manufacturers working with MRIGlobal and ForgeFX Simulations. The identiFINDER® R440 is a lightweight radionuclide identification device (RID) that delivers highly sensitive detection and fast results. The R440 is available with various advanced detector options to respond to radiological threats from farther away, behind heavier shielding, and with better resolution than similar-sized devices. Operators can train on the familiar three-button interface, common to all Teledyne FLIR hand-held radiation detectors, using the HoloTrainer's virtual and tactile learning combination.

HoloTrainer: Augmented Reality CBRN Detection Device Training Simulator: TeledyneFLIR identiFINDER 440



HoloTrainer: Multiuser Augmented Reality CBRN Detection Device Training Simulator

Incorporating Microsoft's Mixed Reality Toolkit for hand-tracking, and taking advantage of the built-in forward-facing HoloLens cameras, users can interact with holographically projected interactive objects using natural, intuitive hand gestures during simulation-based training. The HoloTrainer provides an animated reference device to guide users through actions and expected outcomes. The application can simulate hazardous situations such as lethal doses of radiation and CBRN equipment used to detect it. The simulator includes a collection of lessons that provide training on subjects like Parts Familiarization and Power Up/Down, as well as training on the Finder, EasyFinder, and Identify Modes. In addition, the application offers remote connectivity capabilities through multiuser cloud servers, enabling users to train together in private online sessions, allowing trainers and trainees to collaborate seamlessly as if they were in the same room, even though they may be thousands of miles apart.

"This project represents a groundbreaking approach in delivering cutting-edge training to those

performing mission-critical operations," said ForgeFX Simulations CEO, Greg Meyers. "We are proud to partner with MRIGlobal, JPEO-CBRND, and Teledyne FLIR to develop this innovative training simulator, ensuring first responders have state-of-the-art training before facing hazardous situations."

ForgeFX Simulations, MRIGlobal, JPEO-CBNRD, TeledyneFLIR, Augmented Reality Training Simulator

Augmented Reality Training Simulator for Handheld Radiation Detector

The AR-based training simulator is set to redefine the way first responders and soldiers are trained, ensuring that they are adequately prepared to handle hazardous materials and situations with confidence. The success of this project represents a major step forward in CBRN training and highlights the importance of collaboration and innovation in developing cutting-edge solutions for complex challenges. By working together, MRIGlobal, ForgeFX Simulations, JPEO-CBRND, and Teledyne FLIR have created an invaluable tool that redefines first responder and soldier training, helping to safeguard lives and enhance security.

About ForgeFX Simulations: ForgeFX Simulations is a leading developer of custom simulation-based training solutions for a variety of industries. With more than two decades of experience, ForgeFX has a proven track record of creating immersive, interactive simulations that improve safety, reduce costs, and enhance learning outcomes. Our team of experts works closely with clients to understand their unique needs and develop customized solutions that address their specific challenges. To learn more about ForgeFX Simulations, visit our website at www.forgefx.com.

About MRIGlobal: MRIGlobal is an independent, not-for-profit organization that performs contract research and development for government agencies, industry, and academia. With more than 75 years of experience, MRIGlobal has established a reputation for excellence in science and technology, and a commitment to finding innovative solutions to complex

challenges. Our multidisciplinary team of experts works across a range of fields, including health, energy, national security, and the environment, to deliver high-impact results that improve lives and support economic growth. To learn more about MRIGlobal, visit our website at www.mriglobal.org.

About the JPEO-CBRND: The Joint Program Executive Office for Chemical, Biological, Radiological and Nuclear Defense (JPEO-CBRND) is a joint service organization within the U.S. Department of Defense tasked with protecting the armed forces from the effects of chemical, biological, radiological, and nuclear weapons. JPEO-CBRND's mission is to provide innovative solutions to the warfighter's CBRN defense needs, from detection and identification to protection and decontamination. Our team of dedicated professionals works in partnership with industry, academia, and government to develop and deliver cutting-edge technologies and capabilities that help safeguard the nation's security. To learn more about JPEO-CBRND, visit our website at www.jpeocbrnd.osd.mil.

About Teledyne FLIR: Teledyne FLIR, a Teledyne Technologies company, is a world leader in intelligent sensing, unmanned systems, and integrated solutions for defense and industrial markets. Founded in 1978, the company develops a wide range of advanced technologies to help professionals make better, faster decisions that save lives and livelihoods. To learn more, visit www.teledyneflir.com or follow us on social media. #AnyThreatAnywhere

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