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SRCE™ See, Rehearse, Collectively Experience

Revolutionizing the Realism, Performance Assessment and Economics of Training

Developed for today's highly mobile military, security and law enforcement entities, InVeris Training Solutions' SRCE enables operators and trainees to see, rehearse and collectively experience future missions at the objective location or virtually with a new level of realism and performance assessment to aid in perfecting critical engagement techniques. SRCE is highly scalable and portable making it ideal for training as well as mission rehearsals in various locations to address short windows of opportunity. Unrivaled After-Action Review (AAR) capabilities with quick reset of scenarios enable more training sessions with a greater throughput of operators, thus changing both logistics and the economics of training.

Immersive Realism for Superior Retention

Unlike virtual reality systems that provide a fully synthetic environment, SRCE blends real physical environments, obstacles and live team members with Computer Generated Imagery (CGI) virtual characters, avatars, and assets for an unparalleled training experience. Trainees see their own hands, feet, weapons, teammates and surroundings as well as CGI elements enabled by SRCE's augmented reality (AR) / mixed reality (MR) headset and system. SRCE supports mission rehearsals in both the actual target location (such as airports, ships, schools, etc.) as well as training in the location's digital twin environment via a near real-time scan and creation capability. Additionally, real and digital environments can be customized to emphasize various training techniques or to support specific scenarios.

At introduction, SRCE is optimized for room-clearing techniques in a shoot-house training environment. Future versions, offered as upgrades, will address other critical applications for military and law enforcement.

Unparalleled Performance Assessment Capabilities

SRCE supports real-time monitoring and immersive multi-viewpoint After-Action Review to definitively identify trainee performance and actions. This includes eye, head and muzzle tracking of all team members. The AAR provides instructors and trainees the ability to see progressive improvement for individuals and teams while conducting urban operations training.

SRCE records and assesses performance, including shot placement of each trainee, in real-time. This establishes a baseline that allows instructors and trainees to accurately assess performance down to the second. As soon as the training is over, the environment can be easily and promptly reset.

Changing the Economics and Logistics of Training

SRCE changes the economics and logistics of readiness training and mission rehearsal. With SRCE's environment scanning and replication capability, training sessions can be held in almost any indoor location. This enables instructors and trainees to be geographically separated in remote locations yet interact as if they were together for coordinated actions. This feature significantly reduces the cost of transporting and housing large groups and equipment for an on-site rehearsal and enables training at the point of need.

With conditions reset capability, one group of trainees can evaluate performance in AAR while the next group trains soon after. This dramatically reduces idle time for each group and increases throughput over traditional training methods.

Key Product Features & Capabilities

SRCE's immersive environment and interaction capabilities include:

- Support of up to four trainees simultaneously in the actual or 3D virtual environment, posing realistic stress in a safe training setting.
- All trainees see their own physical features, weapons and magazines, including their actual co-located training partners.
- Interactive avatars provide unexpected and adjustable scenarios each time by moving them in the scanned environment.
- Realistic and customizable avatars can be easily changed, based on age, sex, race, body type and clothing style.
- Participants can scan and train in rooms up to 100'x100' square feet.
- High fidelity BlueFire™ weapons, including recoil, magazine replacement, weapon cant sensing, lockback and instructor-controlled simulated failures.
- Unmatched After-Action Review allows instructors to replay their actions for enhanced training recognition.
- Capabilities include:
 - Multiple eyepoint views
 - Multiple trainee views
 - Birds eye view
 - Moveable camera
 - Barrel/muzzle tracking
 - Shot trajectory
 - Shot placement
 - Trainee's head direction
 - Trainee's eye gaze
 - Active timeline

BlueFire® Weapons Supported

- M4A1
- Glock 17
- M17/M18
- Sig Sauer P320 full/compact
- Additional weapons will be priced separately when available



After-Action Review provides trainees and instructors immediate feedback on the team's performance



The SRCE Team Kit is compact, easy to use and transport

SRCE Team Kit

SRCE comes with a four-person fire Team Kit to support up to eight hours of training time. The kit consists of:

1. Instructor Operator Station (IOS), including:
 - Laptop
 - Network/wireless router; large areas may require a mesh network with additional wireless hotspots / routers (sold separately)
 - Calibration wand
 - Proprietary location scanning software
 - Trainee travel case
2. Four HMDs with tracking cameras and four fully equipped AR tactical kits, a compact wearable Micro PC, networking hub and a USB rechargeable battery power pack
3. Two spare kits for successive training and battery charging including two HMDs with tracking cameras and two fully equipped AR / MR tactical kits
4. Four USB weapon dongles and four infrared (IR) weapon trackers
5. One-year warranty included: recurring warranty fee and cloud access subscription fees to access updates and upgrades (sold separately) will be required for years two and beyond
6. Optional weapons (above) and accessories, such as
 - BlueFire® fill station (to support simulated weapons) with air tank