Avrio Watchword Package on Magic Leap 2

The Watchword Package on Magic Leap 2 leverages industry-leading AR technology, joining it with purpose-built, tested, customizable, AI-powered software in order to overcome the barriers preventing impactful law enforcement training for tabletop exercises (TTX), de-escalation, and active shooter scenarios.

By eliminating the requirement for facility rentals, staging, actors, setup time, and other prohibitive challenges of conventional law enforcement training, the Watchword Package on Magic Leap 2 makes training impactful, cost-effective, frequent, and efficient at scale.

Challenges

– Cost/time-prohibitive
– Unrealistic staging
– Predictable, memorized training
– Limited scalability

The budgetary and logistical constraints of conventional training methods leave many police departments unable to adequately train for active shooter scenarios. Conventional training is resource-intensive—requiring extensive planning, actors, facilities, and time investment, resulting in many departments foregoing it altogether, over-indexing instead on static, 2D classroom training.

When police departments do run conventional live-action drills, they often take place in staged environments, removing trainees from the real-world locations where an emergency would occur. Conventional drills are typically pre-packaged with recorded content, becoming predictable after just a couple of uses. And they are difficult to scale across departments due to scheduling constraints. As a result, many officers do not receive regular active shooter training.

Solution

The Watchword Package on Magic Leap 2 features three powerful solutions: Active Shooter, De-escalation, and Stratscape virtual Tabletop Exercise (TTX).

The Active Shooter and De-escalation solutions take training out of practice facilities and into the real-world environments where emergencies occur. Offering customizable, immersive drills, this solution allows officers to train for high-risk, low-occurrence scenarios safely at a lower cost and higher frequency. The solution is compatible with any blow-back training pistol—without the need for fixed-location, external tracking (e.g., laser tracking) systems.

The Stratscape TTX solution provides emergency response personnel with realistic command and control training. Leveraging Magic Leap 2 headsets, participants can set scenes, modify and deploy assets, simulate targeted hazards, and drill with ease. Decisions about resource deployment play out in real time, enabling participants to exercise strategic responses.

Use Cases

The Watchword Package on Magic Leap 2 provides training for law enforcement agencies across a range of high-risk scenarios and use cases requiring real-time de-escalation, resource deployment, threat response, and more.

Why Magic Leap 2

– Unlike other devices, Magic Leap 2 does not use passthrough AR. Trainees retain an unoccluded view of the real world, with digital content contextually integrated intelligently within their scenarios.

– Immersive on-device content with industry-leading optics (1440x1760 per eye px)

– Expansive 70° diagonal FOV allows trainees to retain situational awareness and provides more room for training content.

– Extended training periods on the lightweight (260g), ergonomically-designed device

– Smooth playback without lag thanks to the most RAM and storage of any standalone AR device

– Realistic digital content and sound placement from advanced features like world understanding

– Deeper insights and customization leveraging array of sensors and cameras that can capture user and performance data

Value Add

The Watchword Package on Magic Leap 2 uses AR to make law enforcement training cost-efficient, effective, realistic, and customizable at scale.

Avrio's AR training minimizes logistical hurdles for less expensive, more impactful training that can occur more often, for more trainees, simulating more scenarios. The solutions are easy to set up and customize in just minutes; can be saved for future use; and can support hundreds of users simultaneously.

The solutions allow law enforcement to train for targeted hazard scenarios in the settings where they occur. When real-world locations are not available, agencies can scan or upload CAD files to recreate specific locations in large staging areas.

Law enforcement can customize a range of scenarios, factors, and interactions with digital characters to test trainees' situational awareness, response time, and muscle memory. Using on-device data, Watchword's AI can also generate new variations of interactions such as compliance or non-compliance, different weapons, and different dialogue.

About Magic Leap

Founded in 2010, Magic Leap ushered in the modern era of augmented reality. 4,000+ patents, groundbreaking research into optics and ergonomics, industry-leading proprietary technologies, and purpose-built domestic manufacturing facilities have led to the release of Magic Leap 2 (and nearly every prestigious design award).

For more information visit:
www.MagicLeap.com

To see additional solutions available for use on Magic Leap 2 visit
www.MagicLeap.com/solutions

About Avrio

Since 2016, Avrio Analytics has been leveraging deep expertise in predictive artificial intelligence (AI) and machine learning to operationalize data to drive mission-critical outcomes. Avrio provides a suite of solutions using augmented reality to train first responders for high-risk, low-occurrence scenarios. Federal agencies and police departments across the country are already using Avrio's solutions.

For more information visit:
https://www.avrioanalytics.com/

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