



Modern Law Enforcement Training



The Edge of
Human-Controlled
Avatars



Preparing Officers for Real-World Challenges on Duty

Modern law enforcement officers often encounter high-pressure, unpredictable situations that demand both technical expertise and emotional intelligence. Whether managing crises or navigating complex social dynamics, the ability to perform under pressure is crucial. While traditional training methods remain important, immersive learning technologies, especially live human-controlled avatar simulations, have become a game-changer in effectively preparing officers for real-world challenges they face on duty.

Human-Controlled Avatars are a Game Changer

The Power of Immersive Learning In Law Enforcement Training

Human-controlled avatars offer significant advantages in law enforcement training by enhancing real-time adaptability and emotional intelligence. Unlike AI-driven simulations, these avatars can adjust dynamically based on the trainee's actions, allowing for emotionally engaging scenarios that build critical skills.

Research highlights several benefits:

- **Real-Time Adaptability & Emotional Intelligence:** Live actor controlled avatars respond to emotional cues, improving trainees' emotional intelligence in high-stress situations (See & Davies, 2024).
- **Enhanced Decision-Making Skills:** Simulations with real actors boost cognitive flexibility and decision-making under pressure, preparing officers for unpredictable scenarios (See & Davies, 2024).
- **Stress Performance and Social Decision-Making:** Immersive VR with dynamic avatars allows officers to safely practice high-stress decisions and communication. The SHOTPROS project found that multisensory cues (e.g., cries, threats, environmental stressors) improved trainee confidence, situational awareness, and performance under pressure (Zechner et al., 2023).
- **Higher Retention & Confidence:** Police officers who engage in immersive VR training with a detailed After-Action Review, viewing their performance from multiple perspectives, demonstrate significantly higher confidence in applying skills and improved learning efficacy (Kleygrewe et al., 2023).









The Future of Law Enforcement Training

While AI and machine learning are advancing training simulations, NextGen XR's live-controlled avatar simulations are setting the new standard for preparing law enforcement officers to handle real-world challenges with confidence and clarity.

Key Benefits of the NextGen XR Approach:

-  **Real-Time Adaptability:** Live human-controlled avatars adapt in real time, creating realistic, emotionally charged scenarios that mirror the unpredictability of modern policing.
-  **Enhanced Learning:** Our simulations offer a fully immersive experience, capturing the emotional complexity of real interactions.
-  **Impactful Training:** Officers strengthen decision-making, confidence, and communication for high-pressure field situations.
-  **NextGen XR Simulations:** Leading the way in providing immersive, cutting-edge training solutions for law enforcement.

References:

- Kleygrewe, L., Jaspaert, E., Hutter, R. I. V., & Oudejans, R. R. D. (2023). Changing perspectives: Enhancing learning efficacy with the after-action review in virtual reality training for police. *Police Practice and Research*, 1-17. National Training Laboratory. (2021). *The Power of Experiential Learning: Retention Rates in Different Training Methods*. National Training Laboratory.
- See, P. J., & Davies, A. (2024). How far have we advanced in simulation-based training for policing and law enforcement? A literature review 2014-24. *Policing Journal*. Oxford University Press.
- Zechner, O., Kleygrewe, L., Jaspaert, E., Schrom-Feiertag, H., Hutter, R. I. V., & Tscheligi, M. (2023). Enhancing operational police training in high stress situations with virtual reality: Experiences, tools and guidelines. *Multimodal Technologies and Interaction*, 7(2), 14.



CONTACT



Have questions about our training, need assistance with simulation setup, or want to share feedback? Our team is here to support you every step of the way.

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