

HERO Simulator

Elevating Performance, Reducing Life Cycle Costs – An Immersive Virtual Training Experience for HERO Operators

The HERO simulator, designed specifically for operators of the HERO family of loitering munitions, offers an immersive virtual training environment, enabling operators to enhance their proficiency in the HERO systems, ensuring they are well-prepared for real-world missions and battlefield challenges.



HERO 30



HERO 90



HERO 120



HERO 400

Enhance decision-making skills and response times with high-fidelity simulations and scenario-based mission rehearsals, tailored for both training and pre-mission preparations.

HERO Simulator

UVision's HERO simulation tool trains users of all proficiency levels in a realistic environment, covering a wide range of operational scenarios, reducing the need for actual flights to achieve combat readiness.

The simulator operates on the HERO Fire Control Unit (FCU), using UVision's airborne core and advanced virtual graphics for an authentic training experience. The simulator features the actual HERO loitering munition software, accurate flight and weather data, and offers debriefing modes for comprehensive feedback. Top of Form

Immersive Training Environment

The simulator features a photo-realistic 3D terrain with precise lighting, weather, and EO/IR payload simulations, enhancing the realism of various tactical training scenarios across air, land, and sea. It supports dynamic mission adjustments with real-time scenario uploads and modifications, and generates accurate real-time video outputs for comprehensive end-to-end mission preparations.

Enhanced Tactical Environment

To enhance realism and training capabilities, and/or support mission planning and practices, the instructor can inject computer-generated forces into the synthetic domains- air, land, or sea. Real-time operational scenarios can be uploaded and executed using a user-friendly utility during the preparation and training period.



Key Features

- Accurate simulation of the platform and electro-optical camera
- Flexible and versatile scenario generator, simulating end-to-end missions
- Allows integration of unforeseen scenarios and diverse weather conditions, replicating real battlefield challenges during training
- Training on a standard Operator Control Unit (OCU) for maximum fidelity
- One instruction station, multiple trainee stations
- Recording and debriefing modes for "lessons learned"
- Multi Munitions Squad Level Configuration - allows for simultaneous practice of up to 6 operators, involving multi HERO munitions within the same operational environment
- Embedded configuration: the simulator software is installed on the Operator Control Unit (OCU) allowing the operator to practice planned mission until the very last minute

System Components



Portable Work Station for the Instructor



Seamless transition from mission execution to training with the same Fire Control Unit