

HIGH-FIDELITY UNMANNED SYSTEMS SIMULATION SUITE

Designed For

Unmanned Systems Training ⇔ Operational Test & Evaluation ⇔ Research & Development

VENOM Provides:

- ◆ A Low-Cost Operational & Emergency Procedural Flight Crew Training Architecture for UAS Pilots
- Sensor Employment Training for Payload Operators
- Complex, Mission-specific Rehearsal Training
- Operational & Safety-Related Employment Planning
- Development of Crew Communications Procedures



Training Suite Highlights

- Generic Ground Control Station that Conforms to DO-178B/C Standards and is FACE-aligned
- High-Fidelity Dynamic UAS Platform Flight Models
- Full Mission Planning: Manual or Autonomous Flight
- Physics-based Electro-Optical (EO) and InfraRed (IR) Cameras
- Live Video Streaming, Recording Snapshots. Compatible with Geospatial Analysis & Exploitation **Tools**
- ◆ Federated Architecture Compliant with DIS & HLA that **Supports Distributed Training Operations**
- Open Source COTS, Common Database and OpenFlight **Terrain Products - Not Restricted by ITAR**
- Content-Rich Training Scenarios Driven by Artificial Intelligence and an Extensive *3D Model Library
- Instructor Operations Station for Comprehensive **Control and After Action Review of Training Events**
- Standalone or Classroom Configurations





- ♦ For more information, in the U.S. contact Legion Training & Simulation, LLC at steven.jones@legion-ts-llc.com - (325) 374-5235 or bob.lyons@legion-ts-llc.com - (626) 394-9771
- For Canadian or International Customers, contact stephane.roy@raasi.ca (514) 305-2090
 - * If vou are interested in our 3D models. contact sales@realdbstore.com (450) 227-1187



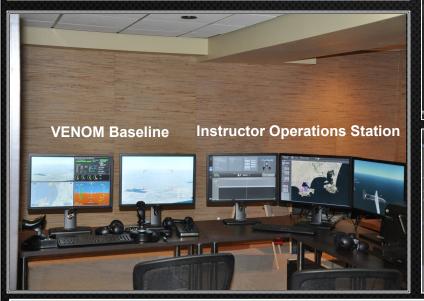
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VENOM Baseline Standalone Includes:

- Generic Ground Control Station:
 - ◆ Full 3D Visualization of Camera View
 - Multi-Function Navigation & Flight Control Console
 - Scalable 2D Map for Navigation & Mission Planning
 - **Detailed Attitude Directional Indicator**
 - ◆ 2nd Dedicated Monitor for Payload Operator
 - ♦ Keyboard, Mouse, & 2 Joystick Controllers
- Choice of Generic Dynamic UAS Flight Models:
 - ♦ Micro, sUAS, MALE (fixed-wing or helo/rotary) or
 - 1 Custom Flight Model for Customer's Specific UAS at no extra cost (OEM data not required if unavailable)
- **High-resolution Open Source CDB Terrain Databases**
- Generic Pattern of Life Scenario for Selected Database
- Volumetric IR Sensor Providing Highly Accurate Thermal **Dynamics Effects**

VENOM Options:

- Integration of Actual UAS Ground Control Station Hardware and Software with our Simulation Architecture
- **Multi-Channel Simulated Radio Communications Console**
- Development of High-Resolution Terrain Databases for **Specific Geographic Areas**
- Mission-Specific, Content-Driven Training Scenarios
- Adding our Instructor Operations Station product allows for Full Control of Training Events, Real-Time Weather & Platform Malfunction Injects, Student Training Logs and **Comprehensive After Action Review Tools**











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