VENOM™

HIGH-FIDELITY UNMANNED SYSTEMS SIMULATION SUITE

The First Full-Featured Solution Dedicated to Pilot & Payload Operator Crew Training for Unmanned Aerial Systems

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**

Screenshot of VENOM Terrain and UAS Model

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 Operating Station for Comprehensive Control and After Action Review of Training Events**

♦ **Standalone or Classroom Configurations**

Screenshot of VENOM Terrain and UAS Model

VEN_v1.0j

CONTACT INFORMATION:

♦ In the U.S. - Legion Training & Simulation, LLC - sales@legion-ts-llc.com
♦ In the European Union - SILKAN GROUP - Aero-sales@silkan.com
♦ In Canada or Other International Customers - Roy Aircraft & Avionic Simulation, Inc - Stephane.roy@raasi.ca

♦ Many of our 3D Entity Models, provided by RealDB, Inc, include High Resolution Textures, High Levels of Detail, Articulated Components, Damage & Destroyed States, Multiple Paint Schemes, Light Points, and Transport and Engagement States. For more info, contact sales@realdbstore.com

This material represents general capabilities and product information and does not contain any controlled technical data as defined within the International Traffic in Arms Regulations (ITAR) or Export Administration Regulations (EAR).
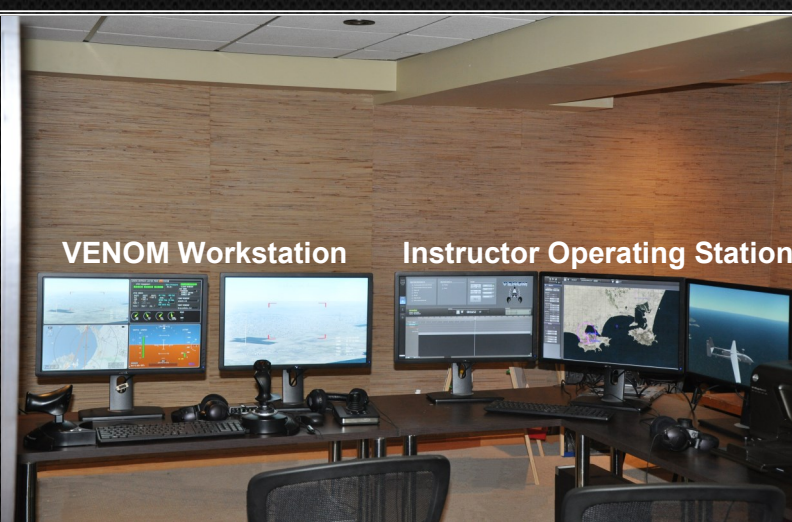
VENOM ™

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 Operating Station product allows for Full Control of Training Events, Real-Time Weather & Platform Malfunction Injects, Student Training Logs and Comprehensive After Action Review Tools**

EO Camera

IR Camera
IR White Hot

Main Menu
Instructor Operating Station

IOS Tactical Display

VENOM Workstation   Instructor Operating Station