



CRAFT

UAV CRAFT

CUSTOMIZABLE SIMULATOR

PRESAGIS
\\ MAKE IT REAL

Customizable, modular UAV simulator designed to adapt, evolve, and deliver. The UAV CRAFT customizable Unmanned Aircraft Vehicle (UAV) simulator's design is based on a robust, modular platform that is capable of evolving as your goals and requirements change.

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The result of decades of experience in advanced software design, simulation, and human-machine interfaces for the top 100 aerospace and defense companies in the world, UAV CRAFT offers an out-of-the-box solution that not only greatly reduces integration time, but also provides substantial cost savings.

BENEFITS



FAST INTEGRATION

With much of the work and integration already done, you can start training, testing, or customizing almost immediately.



LIMITLESS CONFIGURATIONS

Avoid purchasing multiple platforms. UAVCRAFT can be configured to simulate any rotary-wing aircraft — real or imagined. In addition, UAV CRAFT can be used as a standalone system or networked for classrooms, team training or mission rehearsals.



FLEXIBLE PLATFORM

Take advantage of UAVCRAFT's modular architecture to add or test your own systems or subsystems on a high-fidelity platform. UAV CRAFT's generic control station can be tailored to specific UAV platform's baseline equipment.



LOW COST

Aggressively priced, and paired with reduced development costs, UAVCRAFT not only suits restrictive budgets, but also allows organizations to accomplish more for less money.



MAKE YOUR OWN CHANGES

Includes developer licenses so you can customize or extend UAVCRAFT long after it has been delivered.

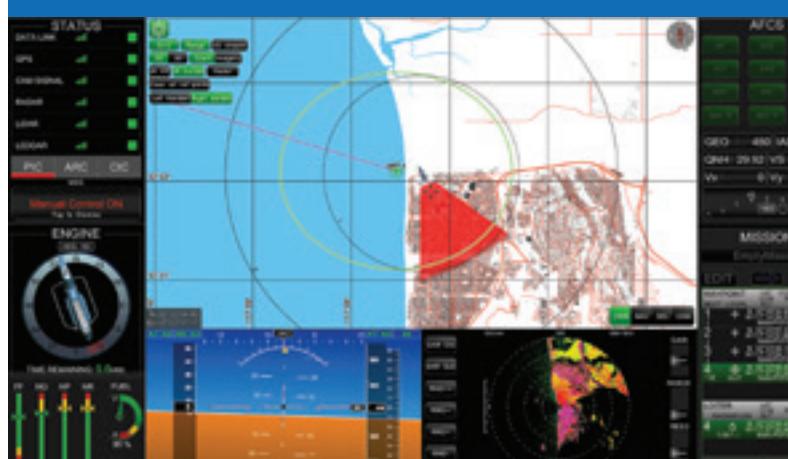
APPLICATIONS

At the core of UAV CRAFT is a high-performance, high-fidelity simulator that gives customers full control of avionics, aerodynamics, weight and balance, engines, flight control, navigation, payloads, weather, and much more. This unparalleled flexibility means that UAV CRAFT can easily be configured for pilot and payload training, "test bench" research, or new product development and design.

As a training platform, UAV CRAFT leverages the latest simulation database standards to offer open, interoperable, multi-domain 3D virtual environments. Thus, the 3D environment can be visualized using a full range of sensors such as EO, NVG, Infrared and Radar. Additionally, multiple simulated payloads are available -- from weapons with realistic performance characteristics to full-function laser target designator/range finder.

For "test bench" research and design projects, UAV CRAFT's realistic environments and flight models are paramount. Our simulator gives you total control over a wide range of UAV types, all technical and tactical environments, and provides you with the freedom to customize a platform to achieve your goals.

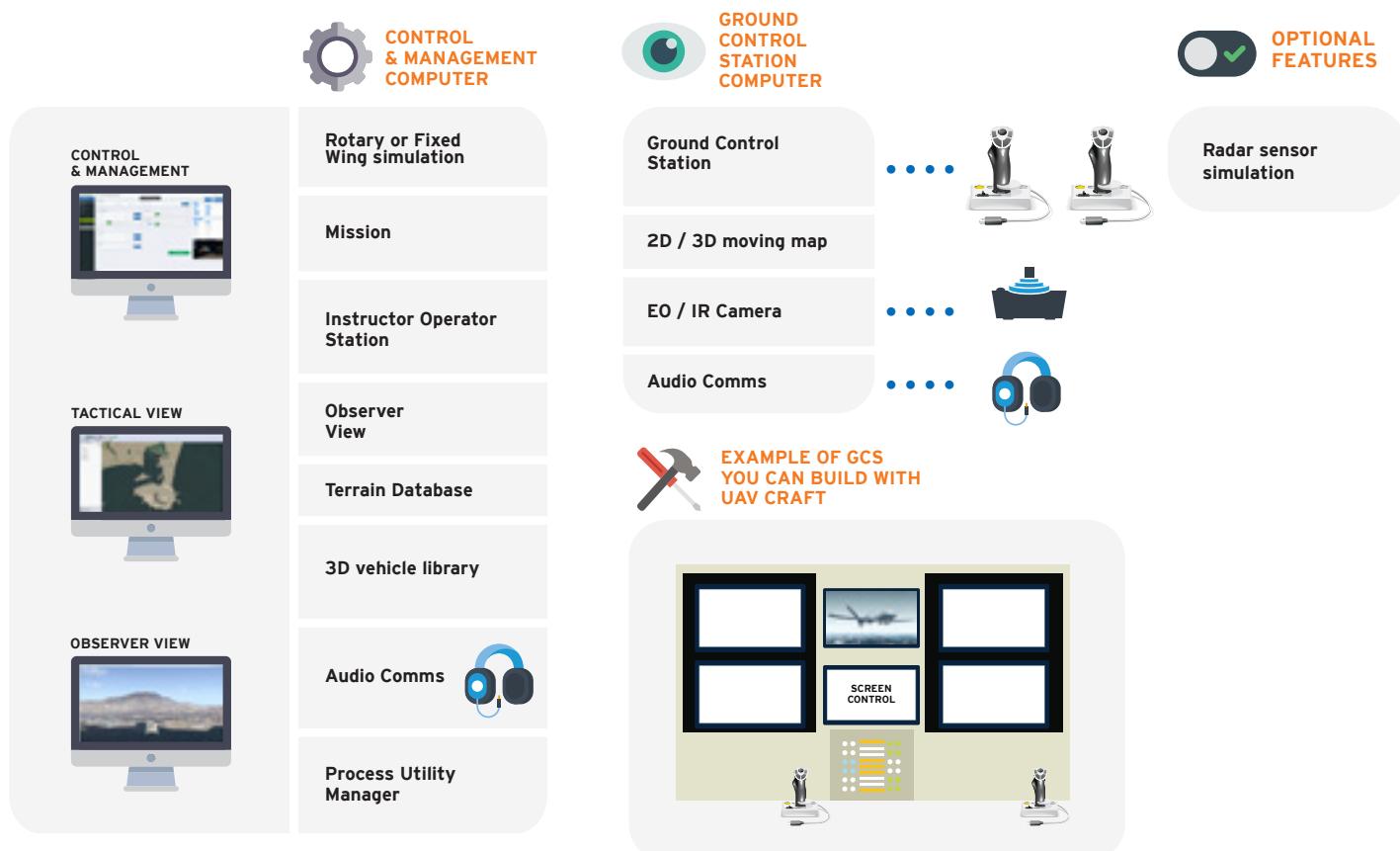
UAV CRAFT is compliant with DIS & HLA architecture and fully compatible with large federated simulations and LVC





GROUND CONTROL STATION

The features of the Ground Control Station (GCS) are developed around the concepts of the STANAG 4586 Architecture. As a result, each component can be customized or replaced. This modular architecture -- based on a functional separation approach -- allows operators to use five Levels of Interoperability (LOI). Through STANAG 4586 Human Supervisory Control Implementation, the GCS fully supports UAV Human Supervisor Control (HSC) functionalities. Additionally, the GCS can also be fully customized or replaced by simulated interfaces that are FACE-aligned and can then be embedded in real hardware.



THE GCS STATION INCLUDES THE FOLLOWING FUNCTIONALITIES

- \ Multi-function navigation & flight control console
- \ 2D/3D moving map with MIL symbology
- \ Numerous instrument indicators
- \ Attitude Directional Indicator (ADI)
- \ Mission planning
- \ Audio communications
- \ System status pages
- \ Single or dual operator capabilities (Pilot / Payload)
- \ EO/IR camera views

GCS PRESAGIS RUNTIME SOFTWARE

- \ UAV CRAFT GCS
- \ Vega Prime Pro
- \ Ondulus IR
- \ VAPS XT

GCS HARDWARE

- \ One high-end computer with standard keyboard and mouse
- \ Two 24" touch screen monitors
- \ Multi-screen monitor stand
- \ One heavy duty pilot joystick
- \ One heavy duty throttle controller
- \ One heavy duty camera joystick
- \ Two radio headsets
- \ Local network components



CONTROL AND MANAGEMENT STATION / IOS

The Control and Management Station is comprised of two sections; launch & process control, and the Instructor Operator Station (IOS).

The Process Utility Manager starts all processes on all the stations and monitors the simulator health status.

The IOS is designed to assist the instructor in controlling the simulation training environment and monitoring all aspects of pilot/crew performance in the simulator. The instructor can control and supervise all functions such as observer point of view, UAV position and systems, meteorological, environmental, control the scenario for tactical and technical flight aspects.

The sample 3D terrain database features objects and points of interest that include roads, rivers, coastlines, buildings, oceans, vegetation, electrical network and airfields.

THE IOS INCLUDES THE FOLLOWING FUNCTIONALITY

- ✓ 3D point of view of the ownship (UAV)
- ✓ Sample dynamic UAS flight model (MALE, VTOL or sUAS)
- ✓ System management tools
- ✓ Terrain database management tools
- ✓ Training management tools
- ✓ Audio communications
- ✓ Sample high-resolution 3D visual terrain database
- ✓ Content-rich training scenario
- ✓ 3D model library



IOS HARDWARE

- ＼ One high end computer, keyboard, and mouse
- ＼ One 3D mouse to control the observer point of view
- ＼ Three 24" monitors
- ＼ One multi-screen monitor stand
- ＼ One radio headset
- ＼ Local network components

IOS PRESAGIS RUNTIME SOFTWARE

- ＼ UAV CRAFT
- ＼ Vega Prime Pro
- ＼ STAGE
- ＼ HeliSIM / FlightSIM
- ＼ Ondulus IR
- ＼ IOS server
- ＼ Process Utility Manager

OPTIONAL SENSORS AVAILABLE

UAV CRAFT can be equipped with the following physics-based radar simulation modes and views:

- ＼ Spot SAR
- ＼ Strip SAR
- ＼ ISAR
- ＼ MTI
- ＼ RBGM

INCLUDED SCENARIOS & DATABASES

UAV CRAFT also includes two high-quality databases – each with a scenario -- out-of-the-box so you can start testing or training immediately.

- ＼ Yemen database
 - ＼ Convoy Follow scenario
- ＼ Tijuana database
 - ＼ Drug Raid scenario







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