

VIRTUAL COCKPIT SIMULATOR (VCS)

FEATURES

- Configurable to Training Needs
- Panel Controls/ Instruments Activated/ De-activated via Touch Screens
- Glass Instruments
- Active Tactical Environment
- Designed for Solo or Supervised Training
- Modular Design

BENEFITS

- Minimal Infrastructure (Power and Cooling)
- Realistic Training

COMPRO's Virtual Cockpit Simulator (VCS) features the same high-fidelity simulations in our fully tactile-based TPT and PTT simulators. However, our VCS provides a lower cost, highly-maintainable, virtualized cockpit utilizing LCD screens in place of the replicated controls of the flight training device. The VCS cockpit features touch screen, fully-interactive, 2D representations of the cockpit environment.

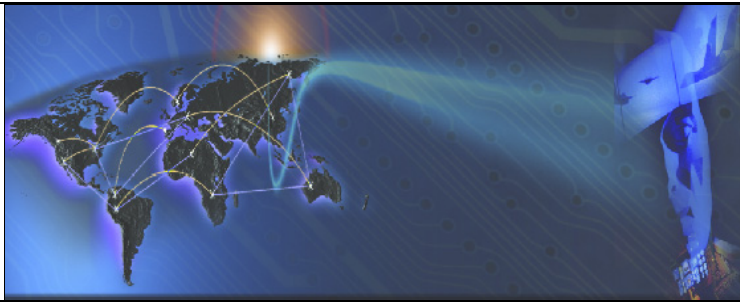
The VCS provides you with a highly-detailed training and engineering environment in a virtual cockpit environment. The VCS, which is configurable to meet your specific training requirements, offers an economical way for training air crews.



VCS Overview

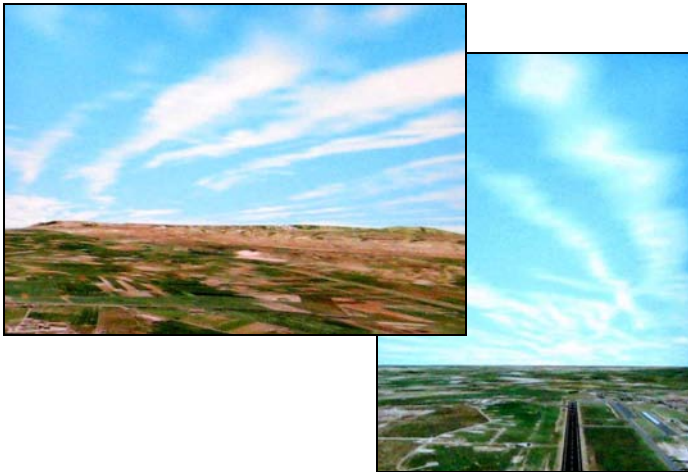
The VCS is a training device for selected aircraft and tasks that simulates real time flight performance, switchology, modes of operation, and display systems. The VCS is configured for close replication of a specific cockpit layout and switch/gauge logic.

The VCS supports training in emergency procedures, instrument flight, and air-to-air and air-to-ground combat training within a dense threat environment. In addition, pilots can practice acquiring and identifying targets and accurately delivering weapons under a full range of weather conditions at any time of day.


VIRTUAL COCKPIT SIMULATOR (Cont'd)

The Out-The-Window (OTW) view includes geographical features, cultural features, missile flyouts, gun tracers, weapon detonations upon impact, and various weapons and aircraft configurations.



Threat warnings relating to airborne and surface threats allow the pilot to dispense chaff and flares to counter incoming missiles.

The pilot station contains cockpit controls and an Out-The-Window (OTW) visual scene displayed on color monitors. Hands-on throttle and stick controls are available for radar operations, weapons selection, and firing. All VCS functional controls and instrument panels used are representative of the actual aircraft parts.



Configuration

The Virtual Cockpit Simulator uses commercial off-the-shelf, Linux®-based hardware and software that runs COMPRO's high-fidelity Modular Universal Simulation Environment (MUSE™) software. The trainer consists of the pilot station, an Instructor Operator Station (IOS), and computer cabinet.

The IOS, which serves as the primary interface to the trainer functions, consists of a monitor, keyboard, and mouse.

The computers, which execute all the necessary and relevant calculations in order to simulate VCS procedures, use commercially available personal computers.



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