



TRU
SIMULATION®

VIRTUAL REALITY FLIGHT SIMULATOR

VERIS

THE FUTURE OF ADVANCED FLIGHT TRAINING HAS ARRIVED

SIMULATOR COMPONENTS

Being a leader takes vigilance. At TRU Simulation™, we transform the flight simulation industry by staying ever mindful of changing and emerging technologies. Now, our legacy of innovation continues with the next evolution in flight training: the Veris™ Virtual Reality (VR) Flight Simulator.

Designed to meet the highest-level FAA and EASA FTD qualifications, the Veris™ VR Flight Simulator delivers comparable performance with a lower price point than a traditional FTD. With the same standard features of a Full Flight Simulator (FFS) such as motion, controls, and high-fidelity flight/systems modeling, the Veris™ Simulator creates a more immersive visual environment by combining those capabilities with a physical cockpit structure and components that together provide pilots an authentic feel and seamless flying experience.



A FULL SPECTRUM OF SAVINGS

Elevated training sessions are only one benefit of the Veris™ VR Flight Simulator. The device also creates significant savings absent from more traditional simulator models.

SPACE

At a small footprint of 7.3 feet x 6.85 feet x 7.25 feet (2.3 meters x 2.1 meters x 2.2 meters), the device is much more compact. It can be placed into almost any existing facility with little to no building modifications required.

TIME

As a clean-sheet design with efficiency in mind, the manufacturing process is streamlined, facilitating less lead time from purchase to training-ready.

MONEY

Thoughtful cost-saving strategies result in a significantly less expensive simulator without sacrificing the quality of training.

VISUAL SYSTEM

Powered by Unreal Engine®, TRU Simulation's™ Image Generator (IG) creates unparalleled visual fidelity while displaying highly detailed and realistic aircraft models, environments and landscapes. Advanced systems modeling enhances the overall realism of the simulation by concurrently providing accurate representation of switches, knobs, levers and instrument panels.

The IG also provides dynamic and accurate lighting simulation, including real-time global illumination. This allows for realistic lighting conditions like shadows and reflections. In addition, the software is capable of creating complex particle effects, such as smoke, fire and fluid simulations, adding the additional realism of atmospheric conditions.

Finally, the IG is capable of being deployed across multiple platforms, including desktop, virtual reality and even cloud-based systems. This flexibility enables wider accessibility and linked simulation, creating more training adaptability.

HEADSET

Utilizing the latest Varjo VR/MR headset, the Veris™ VR Flight Simulator is designed with a wide field of view and precise eye tracking. Its advanced technology allows the peripheral to contribute to a more immersive and natural user experience, enhancing your sense of presence in the virtual environment.

High resolution ensures exceptional clarity and detail, allowing you to see small text and illustrations on instruments with precision. Working together, the optimized cameras in the headset and the external cameras mounted on the simulator provide precise correlation between the pilot's movements inside the VR simulator's virtual world.



MOTION

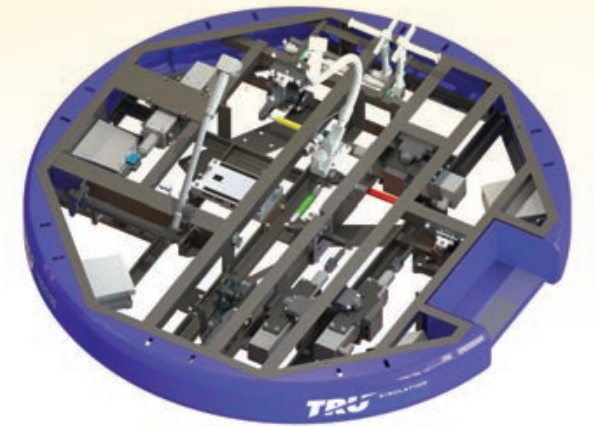
The motion system utilized for the Veris™ VR Flight Simulator was specially selected to meet the unique needs of this device. The fully-electric six degrees of freedom (6DOF) system offers a high-fidelity, full flight simulator experience in a compact design footprint. Touting a lightweight structure, the motion system has a long lifespan and requires minimal maintenance.

The system is applicable to both commercial and military applications where reliability is paramount.



FLIGHT CONTROLS

TRU Simulation™ has a long history of producing the most advanced Control Loading System (CLS) in the industry. Our latest generation digital electric CLS provides a high-fidelity, realistic force-feel simulation exceeding all simulator regulatory requirements. The same control loading technology that drives our Full Flight Simulator products is also utilized in the Veris™ VR Flight Simulator.



INSTRUCTOR OPERATING STATION (IOS)

TRU Simulation's™ newly designed IOS combines powerful components and features with an intuitive user interface to enhance the instructor's ability to effectively manage the simulator.

Two Commercial Off-The-Shelf (COTS) touchscreen displays control and navigate the IOS while a repeater display shows what the pilot sees in the virtual world. The IOS supports maintenance functions such as Qualification Test Guide (QTG) testing, operational readiness tests and troubleshooting. An optional wireless tablet, known as the Remote Instructor Control Unit (RICU), allows the instructor to control the IOS from anywhere around the simulator environment.



SIMULATOR OPTIONS

In addition to the core simulator components found in the Veris™ VR Flight Simulator, you can choose from a variety of options to enhance device capabilities based on unique requirements.



CUSTOM-MODELED AIRPORTS

Select any of the world's airfields included in the modeled airport database. Desired airports can be added on request.



CUSTOM VISUAL SCENES

Create unique scenes to address any number of scenarios. While the possibilities are nearly limitless, examples include:

- Off-airport landing on non-maintained surfaces, sloped terrain or confined area
- Search and rescue operations
- Smoke and fire scenes
- Emergency Medical Services (EMS)
- Oil and gas (Offshore)
- Tours
- Surveillance
- Night Vision Goggles (NVG)
- Nap of the Earth (NOE)
- Cargo/Long line vertical reference
- Military and defense

DEBRIEF SYSTEM

TRU Simulation's™ Debrief System (DBS) makes simulator training session debriefing more effective. The system can capture and combine information from the avionics as well as audio and video of the actual session using mounted camera(s). When the training session is complete, the IOS-controlled system transfers video, audio, moving map, navigational charts, instrument displays and more to the debrief station outside of the simulator for playback.

LESSON PLAN SYSTEM

Consistently manage a training session's various scenarios with TRU Simulation's™ Lesson Plan System (LPS). Using the lesson plan builder, instructors can easily create lesson plans for each training session that include a predetermined sequence of events and activities, making training session management easier than ever.

LET'S WORK TOGETHER

TRU Simulation™ collaborates with you to select the right simulator solution – or combination of solutions – to fit your organization.

240+

QUALIFIED, SUPPORTED DEVICES

120+

CUSTOMERS WORLDWIDE

