FlightSafety Mixed Reality Flight offers an affordable, immersive training experience that enhances and accelerates pilot and crewmember training in a variety of learning environments. The mixed reality experience, through virtual reality or mixed reality headsets are integrated with FlightSafety’s VITAL 1150 Visual System. This prepares students to progress more rapidly through live instruction courseware, training, and better utilization of simulator time. Multiple configurations provide broad-based applicability for various training concepts while supporting personalized training based on specific Customer needs.

- Provides economic value for the enterprise
- Facilitate informal, opportune training venues outside of the simulator center
- Encourage competency-based advancement
- Built-in UI/IOS provides turnkey functionality

For more information, please contact Visual Systems – St. Louis
5695 Campus Parkway • Hazelwood, MO 63042 • 314.551.8400
sales@flightsafety.com • flightsafety.com • A Berkshire Hathaway company
FlightSafety Mixed Reality Flight

A Tiered Family of Training Devices, Tailored to Specific Training Tasks and Venues

**Standard**
- Ruggedized XR PC
- VITAL Mixed Reality
- Latest COTS hi-res Head Mounted Displays (HMDs)
- 360-degree field of view
- Spring-centering representative controls
- System platform to facilitate relocating
- Physical and touch screen

**Pro**
- Ruggedized XR PC
- VITAL Mixed Reality
- Latest COTS hi-res Head Mounted Displays (HMDs)
- 360-degree field of view
- Force feedback controls
- Motion base
- Physical and touch screen
- Representative cockpit

**UTD/CPT Cockpit Trainer Visual Upgrade**
- Economical system upgrade to existing cockpit that expands possible training tasks
- Increased device fidelity
- Expanded training task capability: single ship start, taxi, takeoff, traffic patterns and landings, approach to stall, acrobatic/confidence maneuvers, emergency procedures
Mixed Reality Flight Features and Benefits

Mixed Reality accelerates pilot proficiency by creating a better prepared student through accessible training repetitions in addition to traditional Full Flight simulation.

• Students progress more rapidly through live instruction courseware and derive more benefit from the simulator experience
• Ready for delivery using a virtual reality or mixed reality headset integrated with the FlightSafety VITAL 1150 Visual System
• Provides a fully certified image generator with the latest PC technology and high-performance off-the-shelf graphics processors
• Integrated design ensures advanced features in future devices are utilized including primary capabilities for resolution, expanded fields of views, and use of FlightSafety’s global database
• 3D visual and 3D sound
• 360-degree field of view
• Multiple training modules can be included in the user interface to demonstrate a broad-based applicability for various aviation training concepts such as:
  – Mission rehearsal (LVC, DMO)
  – Stealth and observer viewing
  – Formation flying
  – Cockpit familiarization and preflight
• Customer benefits include:
  – Accelerated learning as students quickly ramp up on complex training concepts
  – Improved Customer satisfaction as more knowledge is acquired in shorter periods of time
  – Customers accelerate their learning curve and maximize live instruction and simulator time
• Robust UI offers optional features including:
  – Training events uniquely explored, rehearsed, and tracked throughout the learning process
  – Live instructors personalizing training approach based on student historical learning data captured during Mixed Reality training activity

Common Training Applications

Mixed Reality Flight will benefit operators of both fixed wing and rotary wing aircraft and can be used for the following during basic pilot training.

• Pilot Screening
• Cockpit Familiarization
• Emergency Procedures
• Basic Flight Procedures
• Traffic Pattern Operations
• Geographic familiarization

In addition to the common tasks above, Government operations will benefit from Mixed Reality Flight during the following advanced pilot training tasks.

• Formation Flight
• Mission Rehearsal
• Aerial Refueling Practice
• Distributed Mission Operations (DMO)
• Live Virtual Constructive Training (IVC)
• Additional Options and Configurations

Additional Options and Configurations

Mixed Reality Flight is a fully scalable product that can be configured to meet a variety of training levels and needs. Many additional options are available such as:

• FlightSmart AI/ML data-driven adaptive learning modules: https://resources.flightsafety.com/flight-simulation/flight-simulation-flightsmart/
• Worldwide database subscription service
• UTD/CPT or other cockpit trainer integration
• FlightSafety International has over 100 advanced full flight model/simulations that can be integrated with Mixed Reality Flight and improve the fidelity of training.