

AXIS Ground-to-Flight VR Trainer Platform

UNLEASH THE FUTURE OF AVIATION TRAINING WITH VR

AXIS seamlessly integrates advanced Virtual Reality (VR) technology and Unreal Engine 5 within a versatile, multi-aircraft capable evidence-based training platform. Our solution offers immersive, risk-free experiences – from aircraft familiarization to hands-on flight training – covering pre-flight checks, ground handling, Aircraft System Familiarization, and emergency procedures. Whether in the classroom or at home, AXIS ensures thorough preparation for Full Flight Simulator training, along with individual and independent training options for various pilot training purposes.



VR WALKAROUND TRAINER

- Conduct a thorough external and in-cockpit pre-flight inspection.
- Follows real-world procedures according to aircraft manuals and Type Rating curricula.
- Immersive and risk-free, building confidence before handling actual aircraft or a FFS.

VR COCKPIT PROCEDURE TRAINER

- Execute and learn normal and non-normal procedures across flight phases.
- Master emergency workflows in a realistic cockpit environment.
- Enhanced learning with interactive, scenario-based training.

WEB-BASED TRAINING

- Available on iOS & Android tablets.
- Same high-quality content as VR trainers, without the need for a headset.
- Includes Aircraft System Familiarization with an AI instructor for real-time learning.

CUTTING-EDGE HARDWARE

Varjo XR & VR Headsets

Military-grade precision:

115° field of view, 70+ pixels per degree resolution.

Bionic Display™ for stunning visual clarity.

Expansive 114° field of view with a refresh rate of 90 Hz.

- Focus area (27° x 27°) at 70 Pixel Per Degree (PPD) uOLED, 1920 x 1920 px per eye
- Peripheral area at over 30 PPD LCD, 2880 x 2720 px per eye

LiDAR sensors for real-time depth perception and spatial awareness.

Eye tracking: 200 Hz with sub-degree accuracy

Hand tracking: No controllers needed—Varjo headsets let your hands take control with advanced hand recognition technology (Ultraleap Gemini v5)

Experience the next level of aviation training with AXIS Ground-to-Flight VR Trainer Platform

