Simulated flight testing options include two dual purpose L-29s, the 737 Flight Deck Simulator, and the F-18 Simulator. Ability to safely test pilot workload and performance in military and commercial scenarios. A Live Virtual Constructive (LVC) simulation framework allows multiparticipant missions and interoperation with live aircraft.

LET OPL SERVE YOUR FLIGHT TEST NEEDS

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FULL SERVICE FLIGHT TESTING

L-29 Aircraft-In-Loop Simulators
• Both OPL L-29s rigged for flight and sim
• Full LVC Capability
• Integrated with Coalescence mixed reality VR system
  • Can see the physical flight controls and displays simultaneously alongside simulated outside visuals
• Technical Specifications
  • Collins Core(TM) simulation software
  • Collins EP Image Generation software for outside visuals and HMD
  • Prepar3d simulation software
  • Full HOTAS controls
• Data Capabilities
  • HLA/DIS interoperability with live assets
  • Cognitive Assessment Tool Set (CATS) fully integrated
  • Records aircraft flight state, pilot physiological data, DIS traffic, eye tracking, head tracking, control inputs
  • Can record or stream data in real time
  • All data and video time-synced with linear time code
  • HD video recorders for flight displays, outside visuals, pilot-facing camera, and eye-tracking

737 Flight Deck Simulator
• 4 configurable glass flight displays
• 5-screen front-projected outside visuals
• Full flight controls
• Flight Management System (FMS)
• Mode Control Panel (MCP) tied into flight model
• Full flight data recorder in CATS
• Video recorders for all flight displays

Human Performance Assessment Fighter Simulator
• 3 HD Displays for outside visuals
• Full HOTAS control
• LVC capable
• CATS
• Core simulation software
• Collins EP Image Generation software for outside visuals

Authorities & Approvals
• FAA
• Current USAF/AFRL Public Aircraft Operations (PAO)
• Flight Test process for DoDD 5030.61/AWB-340 and GFR