

GYROLAB GL-1500

The GL-1500 is a single seat motion platform that provides users with 360 degrees of continuous and simultaneous motion in 4 axes of motion (pitch roll and yaw) while generating up to 2.5 sustained Gz motion stimuli. This basic, cost effective unit can effectively be utilized for either flight training or research applications.

As a flight simulator, the GL-1500 offers pilots an ideal simulator to receive spatial disorientation and situational awareness training with the option to edit the flight profiles offered by the interactive profile

editor. The WFOV visual system allows occupants to experience a visually immersive flight experience with each flight while the interchangeable instrumentation panel, throttle and stick supply an enhanced cockpit configuration.

For various research applications, the GL-1500 provides a complete medical monitoring system with CCTV and voice communication systems. The user-friendly data acquisition system and storage program provides an ideal way to keep track of all test data collected, for further use.



HIGH FIDELITY COCKPIT



REAL WORLD VISUALS



REALISTIC INSTRUMENTS



AIRCREW TRAINING SYSTEMS

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APPLICATIONS

Training

- Spatial Disorientation
- Situational Awareness
- Unusual Attitude Recovery
- High Angle of Attack
- Multiple Aircraft Operations
- Threat Avoidance
- Weapons Deployment
- Takeoff and Landing
- Aerobatic Maneuvers
- Motion Sickness Desensitization
- Pre-Flight & Post-Flight Checks
- Instrument Flight Rules (Day or Night/Ground or Air)

Research

- Clinical & Operational Research
- Mishap Recreation & Investigation

BASIC PERFORMANCE SPECIFICATIONS

- 10 Foot Planetary Arm
- Electro-Mechanical Motion Drive System
- 360° rotation in 4 axes: Planetary, Yaw, Roll, and Pitch
- Maximum G Level of up to 2.5 G
- Mean Onset Rate of 1 G/sec

ADVANTAGES

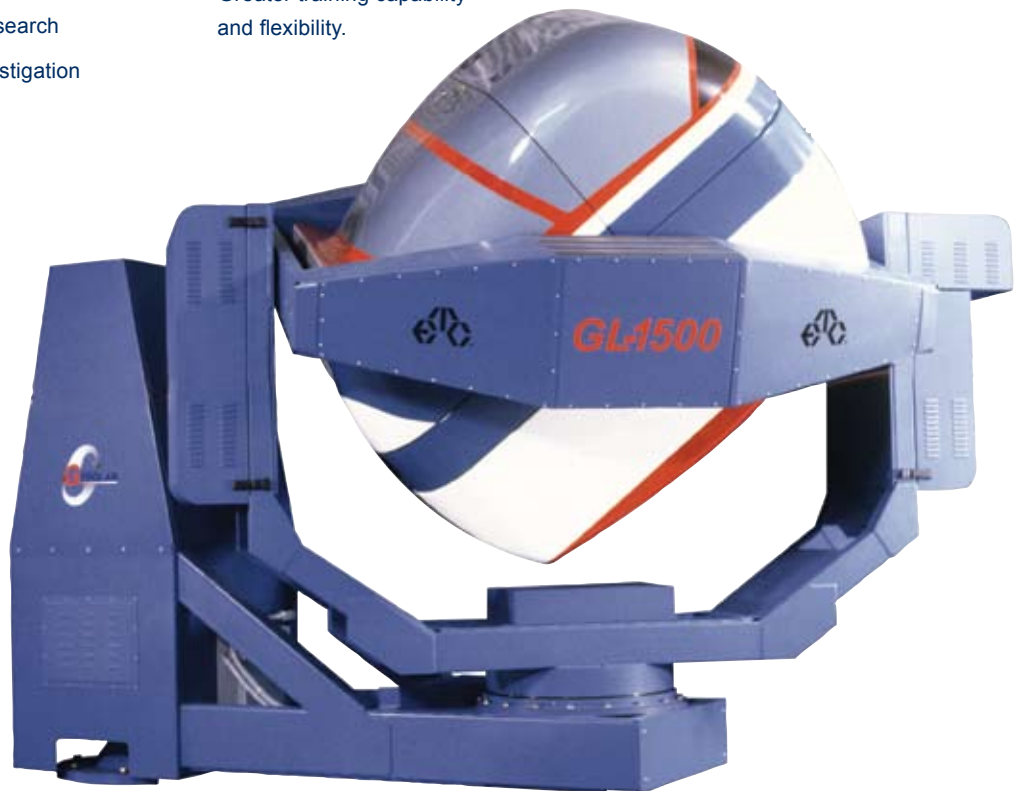
- Reduction of flight-hours and cost
- Increased aircraft engine service life
- Reduced loss of life and equipment through improved safety
- Longer aircraft service life due to less wear and tear
- Greater training capability and flexibility.

ADDITIONAL EQUIPMENT FEATURES

- Single Seat, control stick (center or side)
- Rudder pedals with control loading – cockpit adjustable
- Full function sound system
- Forced air ventilation
- Simulated ejections seat

VISUAL DISPLAY SYSTEM

- WFOV dome x 70 degrees vertical field
- Out-the-window visuals with a CGI system
- Night, day, dusk scenes
- Simulated HUD
- Photorealistic airports



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