

GYROLAB GL-4000

The GL-4000 is a high-fidelity, single seat interactive motion platform providing users with 360 degrees of continuous and simultaneous motion in 4 axes of motion (planetary, pitch, roll and yaw). Up to 6 Gs of motion stimuli are generated in the planetary axis. The GL 4000 can be used for physiology and flight training in addition to its research applications.

The GL 4000 provides a realistic training environment with a full, high fidelity cockpit of the Client's choosing. Interactive profile editors adds to the flexibility of the GL 4000 by allowing the operator to pre-program flight scenarios for spatial disorientation and situational awareness flight training. The interchangeable cockpit module adds to the unit's flexibility and can be used not only as a fixed wing, but rotary craft simulator as well.

Training in the GL-400 offers the highest degree of learning transfer available and further allows the pilot to experience the same mission stress as they would in an actual flight.

For research applications, the GL 4000 offers a full, standard medical monitoring package, including heart rate and blood pressure. Occupants are closely monitored via the CCTV and verbal communication system. All data collected is easily stored, formatted and retrieved for future utilization.



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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 6 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 ejection 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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