

The National AeroSpace Training And Research Center



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# GYROLAB GL-4000

The GL-4000 is a dynamic, centrifuge-based motion platform, as well as a data capture and collection system. It features 360° continuous and simultaneous motion in four axes (planetary, pitch, roll, and yaw) up to 6Gs. The interchangeable cockpit modules can support multiple aircraft types, including rotary wing aircraft simulators.

The GL-4000 is a useful tool in physiology and flight training as well as in clinical and operational research applications. It includes an interactive profile editor for spatial disorientation, situational awareness, and other flight scenarios.



# GYROLAB GL-4000

## APPLICATIONS

- Space Training
- Spatial Disorientation
- Situational Awareness
- Unusual Attitude Recovery
- High Angle of Attack maneuvering
- Multiple Aircraft Operations
- Formation & Aerobatic Maneuvers
- Instrument and Navigation training
- Takeoff and Landing
- Motion Sickness Desensitization
- Mishap Recreation and Investigation
- Night Flying

## SPECIFICATIONS

- 10-Foot Planetary Arm
- Electro-Mechanical Motion Drive System
- 360° Rotation in 4 axes; Planetary, Yaw, Roll, Pitch
- Maximum G Level: 6
- Onset Rate: 0.8 G/second
- Single seat, control stick
- Rudder pedals with control loading
- Multi-channel voice communication system
- Forced air ventilation
- 120° x 70° Field of View & real-world visual display
- Photorealistic airports
- Interchangeable cockpits configurations
- BIOPAK medical monitoring equipment
- Closed Circuit Television (CCTV) video capture & recording

## VALUES

- Reduced loss of life and equipment through improved safety
- Realistic training and research tool to monitor subjects in controlled flight environment

