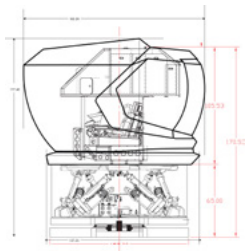




GYRO IPT-III



ETC's GYRO IPT-III is a versatile training device designed to support a broad range of requirements for fighter, bomber, transport, and turbo prop aircraft configurations in order to optimize the training experience.

The GYRO IPT-III provides pilots with three levels of training:

Demonstration, Interactive Profile, and Mission

- Demonstration level: Trainees ride through the illusion in order to effectively demonstrate limitations of the human system
- Interactive Profile level: "Pilot-in-the-loop" profiles that further demonstrate SD illusions while incorporating basic flying skills
- Mission level: Mission scenarios in a fully dynamic flight environment where illusions are presented that challenge a pilot to properly implement SD recognition and recovery strategies

The capabilities of the GYRO IPT-III, through its profile editor, allows for any number of training scenarios to be scripted to achieve each of the three levels of learning; Knowledge, Comprehension and Application. When these levels of learning are achieved the pilot acquires the skills to recognize and avoid, or recognize and recover from spatial disorientation in the aircraft. The ability to provide a wide selection of scenarios will aid your organization in providing a training solution that maximizes transfer of skills from simulator to aircraft.





GYRO IPT-III

3 LEVELS OF TRAINING: Passive Demonstration | Interactive Profile | Mission

Leading to the most comprehensive application of Spatial Disorientation training to prevent SD occurrences in-flight.

Training Applications

Spatial Disorientation | Upset Recovery | Motion Desensitization | Instrument Flying and Navigation | Night Flying Operations | Multi-ship Operations | Human Physiology Research | Accident Reconstruction Research | After Action Review

Basic Performance Specifications

Cabin/outer Enclosure | Component Based Cockpit Module | Control System and Software | 22 Fixed Wing and 10 Rotary Wing Automated SD Profiles | Motion Desensitization Profiles | Upset Recovery Profiles | Interactive Profile Editor | Instructor/Recording and Debriefing Stations | Patented Subthreshold Motion control (U.S. PATENT NO. 4,710,128) | 6-DoF Hexapod Platform mounted on a continuous yaw platform for (6+1) degrees of freedom: pitch, roll, yaw, heave, sway, surge, and continuous yaw



Cockpit Configurations

Fixed wing or rotary wing configurations with realistic flight controls and basic instrumentation

Synthetic Environment

Synthetic environment generator included with generic, self acting threat models. HLA enabled.

Visual Display & Database System

Spherical Direct Projection with 120° horizontal by 70° vertical Field of View (FoV) | Multiple projectors | Geo-typical texturing | Geo-specific 3D elevation | Topographical and cultural features | Weather effects | Reconfigurable terrain and runway area | All major airports with accurate runway representations

Safety & Diagnostic

Independent safety features | In excess of 200 safety interlocks | Built In automated Diagnostic and Test Tools | Black Box Data Logger & Analyzer | Usage Based Maintenance Management System

Facility Requirements

480 VAC, 60 Hz, 50 kVA | 20 ft X 20 ft room | 15 ft ceiling