

GYRO IPT II

INTEGRATED PHYSIOLOGICAL TRAINER

ETC's Gyro Integrated Physiological Trainer (IPT), Generation II, provides pilots with a hands-on, realistic spatial disorientation training experience. During simulated flight, a pilot experiences a variety of real world illusions in realistic virtual environment. Unlike disorientation demonstrators, in which a pilot is just "along for the ride," a pilot in the GYRO IPT II has full, closed loop control of the flight before, during and after the disorienting illusion.

This capability creates a fully interactive learning experience because the pilot must maintain control of the simulator and fly through the illusion to a successful resolution during training.

For those customers desiring to create their own illusions, the interactive profile editor provides a mean by which to accomplish this objective. Each customer is afforded the ability to create their own illusion scenario, combining multiple illusions into one continuous flight for additional training benefits.

The Gyro Integrated Physiological Trainer (IPT), Generation II also is offered with an optional medical monitoring and data acquisition system which allows usage by researchers while performing various quantitative studies on human physiology.



REALISTIC COCKPIT



PC CONTROL SYSTEM



INSTRUCTOR STATION



AIRCREW TRAINING SYSTEMS

125 James Way, Southampton, PA 18966 USA

ph. 215.355.9100 • fax 215-357-4000

ATS@ETCUSA.COM www.ETCAircrewTraining.com

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APPLICATIONS

Training

- Spatial Disorientation
- Situational Awareness
- Night Flight Procedures and Goggle Use
- Partial Panel Instrument Failure Procedures

ADVANTAGES

- Interactive learning environment
- Instructor is able to task student in a variety of ways through the interactive motion profile editor
- Simulation with sustained motion cuing for optimal skill acquisition and retention

VISUAL DISPLAY SYSTEM

- Viewing field of view of approximately 110° horizontal X 30° vertical
- Wide field of view image forward out-the-window visual display
- Generic, phototypical visual database
- Optionally, a real-world, geotypical, photo realistic visual database

BASIC PERFORMANCE SPECIFICATIONS

- 4 ±2 DOF
- Simultaneous motion cuing
- Interactive motion profile editor
- 22 automated SD profiles
- Single seat, single engine

ADDITIONAL EQUIPMENT FEATURES

- Medical monitoring
- Multi engine option
- Optional rotary configuration available
- Realistic sound



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