Spatial Disorientation
Training Simulators

Contact a regional director today for a one-on-one consultation.

EUROPE
Bob Young
byoung@etcusa.com

TURKEY
Saciil Kilincer
SacilK@etcTurkey.com.tr

MIDDLE EAST/NORTH AFRICA
Husnu Onus
honus@etcusa.com

SUB-SAHARAN AFRICA
Bob Young
byoung@etcusa.com

ASIA PACIFIC
Eric Sprague
esprague@etcusa.com

CHINA
David Kong
dkong@etcusa.com

SOUTH KOREA
Dr. Moon Park
mpark@etcusa.com

INDIA
Air Marshal (Ret.) GS Chaudhry
gchaudhry@etcusa.com

SOUTH/CENTRAL AMERICA
Glenn King
gking@etcusa.com

CANADA
Kester Hamilton
khamilton@etcusa.com

MEXICO/CARIBBEAN
Pete Amalbert
pamalbert@etcusa.com

US MILITARY/ATFS
SPECIFIC PRODUCTS
Ken Ginader CAPT, USN (Ret.)
kginader@etcusa.com

www.etcaircrewtraining.com

Visit us on the web: etcaircrewtraining.com
Mishaps due to loss of situational awareness continue to occur in modern aircraft and their highly dynamic flight environments. Yet, training to successfully manage these mishaps remains ineffectively addressed... until now.

ETC’s family of training simulators, specifically designed with spatial disorientation and situational awareness training in mind, increases the aviator’s level of preparedness for encountering and successfully managing adverse flight conditions.

JOIN US IN MOVING TOWARD A ZERO MISHAP GOAL.

Mishaps due to loss of situational awareness continue to occur in modern aircraft and their highly dynamic flight environments. Yet, training to successfully manage these mishaps remains ineffectively addressed... until now.

ETC’s family of training simulators, specifically designed with spatial disorientation and situational awareness training in mind, increases the aviator’s level of preparedness for encountering and successfully managing adverse flight conditions.

JOIN US IN MOVING TOWARD A ZERO MISHAP GOAL.

Mishaps due to loss of situational awareness continue to occur in modern aircraft and their highly dynamic flight environments. Yet, training to successfully manage these mishaps remains ineffectively addressed... until now.

ETC’s family of training simulators, specifically designed with spatial disorientation and situational awareness training in mind, increases the aviator’s level of preparedness for encountering and successfully managing adverse flight conditions.

JOIN US IN MOVING TOWARD A ZERO MISHAP GOAL.
GYRO IPT II
Integrated Physiological Trainer, Second Generation

The GYRO Integrated Physiological Trainer, Second Generation (GYRO IPT II) provides the most advanced motion cueing system for training exercises in spatial disorientation, situational awareness, VFR/IFR flight, navigation, unusual attitude recovery and upset recovery. (Two-seat, rotary wing configurations are also available.)

**FEATURES**
- Forward, out-the-window visual display
- Real-world visual database for customer specified region
- Night Vision Goggle compatible
- 4 + 2 DoF electromechanical motion system
- Continuous 360° in yaw
- 22 fixed wing SD profiles
- 10 rotary wing SD profiles
- On The Fly motion editing capability
- Generic or aircraft-specific cockpit configurations
- Bezeled instrument display
- Instructor Console with CCTV and recording capability

**COCKPITS**
All training simulators come with high-fidelity, component-based cockpits and can be data-linked (HLA or DIS) to other compatible simulators for distributed training exercises.

GYRO IPT II
Integrated Physiological Trainer, Second Generation

The GYRO Integrated Physiological Trainer, Second Generation (GYRO IPT II) provides the most advanced motion cueing system for training exercises in spatial disorientation, situational awareness, VFR/IFR flight, navigation, unusual attitude recovery and upset recovery. (Two-seat, rotary wing configurations are also available.)

**FEATURES**
- Forward, out-the-window visual display
- Real-world visual database for customer specified region
- Night Vision Goggle compatible
- 4 + 2 DoF electromechanical motion system
- Continuous 360° in yaw
- 22 fixed wing SD profiles
- 10 rotary wing SD profiles
- On The Fly motion editing capability
- Generic or aircraft-specific cockpit configurations
- Bezeled instrument display
- Instructor Console with CCTV and recording capability

**COCKPITS**
All training simulators come with high-fidelity, component-based cockpits and can be data-linked (HLA or DIS) to other compatible simulators for distributed training exercises.
Ideal for flight training schools, academies and airports, ETC’s GAT II line of SD trainers combine basic flight, instrument and spatial disorientation training into one cost-effective motion platform.

FEATURES
- Combined instrument and real-world visual display
- Can be qualified up to FAA FTD Level 3
- Interactive profile editor with On The Fly input capability
- 14 spatial disorientation training profiles
- Rotary wing aircraft configuration with 10 spatial disorientation training profiles available
- Generic or aircraft-specific cockpit configurations

ETC’S SPECIALIZED IMAGE GENERATOR SUPPORTS ALL VISUAL ILLUSION CAPABILITIES:
Dynamic Airport Area | Sloping, Volumetric Clouds | Configurable Light Mesh

GAT II FIXED WING

Generation One

Ideal for flight training schools, academies and airports, ETC’s GAT II line of SD trainers combine basic flight, instrument and spatial disorientation training into one cost-effective motion platform.

The GL-6000 GRYPHON’s simultaneous rotational and linear acceleration capabilities provide the ideal research environment to explore more advanced flight scenarios in the safety of a ground based unit.

Its unique motion capabilities, such as simultaneous motion cueing, make it an ideal platform for STOVL, V/STOL and VTOL aircraft pilot training.

GL-6000 GRYPHON
Disorientation Research Device

The GL-6000 GRYPHON (or HERCULES) Advanced Disorientation Research Device was specifically developed for the Naval Medical Research Unit - Dayton located at Wright-Patterson Air Force Base, Ohio.

FeATures
- Combined instrument and real-world visual display
- Can be qualified up to FAA FTD Level 3
- Interactive profile editor with On The Fly input capability
- 14 spatial disorientation training profiles
- Rotary wing aircraft configuration with 10 spatial disorientation training profiles available
- Generic or aircraft-specific cockpit configurations

ADVANCED AIRCRAFT TRAINING DEVICE

The Advanced Aircraft Training Device (AATD) is a multipurpose flight training device with a real-world visual system, flight model and an instrument display that simulates the performance and characteristics of a single-engine aircraft. Additionally, the AATD can present pilots with a variety of visual illusions.

VESTIBULAR ILLUSION DEMONSTRATOR
Advanced Barany Chair

A powered Barany Chair with the added benefit of a cabin enclosure for increased spatial disorientation demonstration effectiveness. Optional medical monitoring system is also available.

GAT II HELO

A motion based helicopter flight simulator with pitch, roll, and continuous yaw for basic flight and SD training. A projected dome, wide-field-of-view visual system provides authenticity.

Each SD Trainer includes training by the AeroMedical Training Institute (AMTI).

AMTI’s Train-the-Trainer program ensures your instructors provide effective spatial disorientation training that pilots will understand.