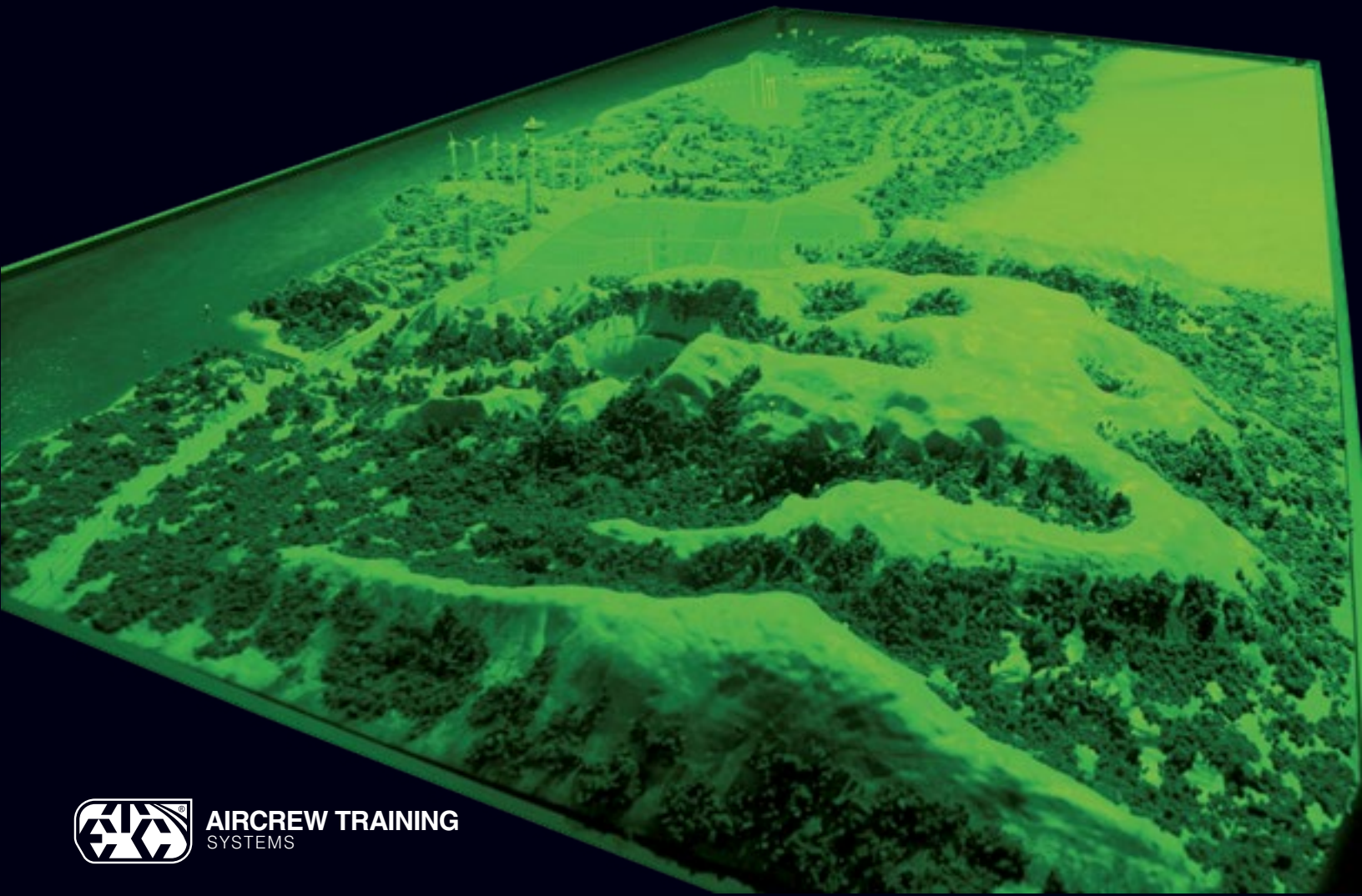


NVGTS

NIGHT VISION AND NVG TRAINING SYSTEM

The effectiveness of human vision rapidly degrades in dark environments, posing a major challenge to safety in night flying. While the use of Night Vision Goggles (NVG) has changed the paradigm of night operations, it is also bound by its unique limitations and potential pitfalls.

The NVGTS is a comprehensive training system that allows pilots and aircrew to appreciate the challenges of night flying and be trained to optimize their unaided and aided night flying experiences.



AIRCREW TRAINING
SYSTEMS

NVGTS

NIGHT VISION AND NVG TRAINING SYSTEM

NVGTS SYSTEM COMPONENTS

- Instructor console with computer system
- Sound system
- Training room seating
- Light Bar
- Virtual Terrain Model Board
- Physical Terrain Model Board
- Flight Cockpit Module (option)

NVGTS TRAINING APPROACH

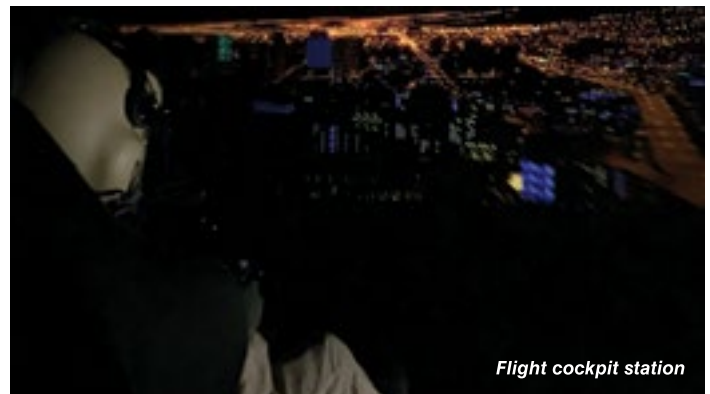
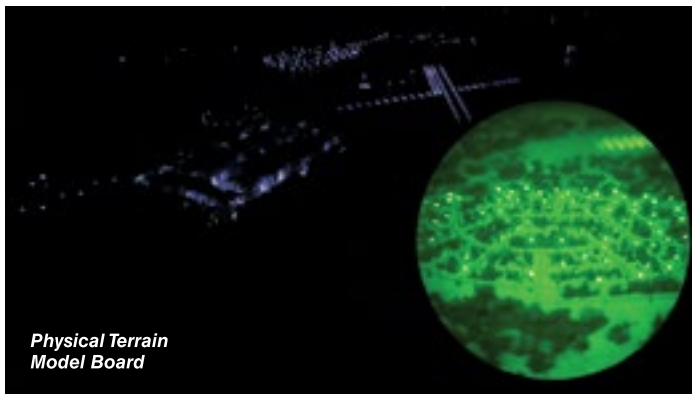
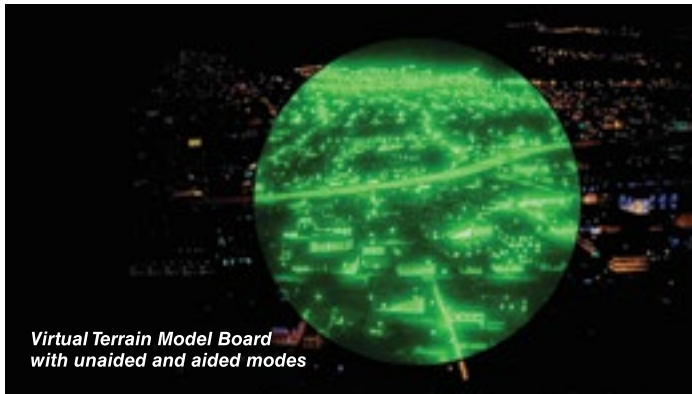
- Automated Audiovisual Presentations for academics
- Light Bar for light and color illusion demonstration
- Virtual Terrain Model Board to experience night flying challenges in a virtual flight simulation environment
- Physical Terrain Model Board for appreciation of night visual limitations using physical models and lights

NIGHT VISION TRAINING COMPONENTS

- Visual physiology and its vulnerability at night
- Autokinesis, Purkinje shift, and effects of different lights on unaided vision
- Silhouette recognition and good night flying practices
- Effects of various celestial and urban lights on unaided vision and the different visual appearances based on surface materials and conditions

NVG TRAINING COMPONENTS

- NVG principles, characteristics, and limitations
- Effects of colors and light brightness on aided vision
- Simulated flying experience under aided vision
- First hand flying, with the optional flight cockpit
- Effects of various celestial and urban lights on aided vision and the appreciation of how visual performance is affected while using NVG



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AIRCREW TRAINING
SYSTEMS