A²EOSTIM

TEST, TRAINING & SIMULATION

STIMULATOR FOR DISTRIBUTED APERTURE SYSTEMS

Textron Systems' Advanced Architecture Electro-Optical Stimulator (A²EOSTIM) mitigates the excessive costs of operational tests for Distributed Aperture Systems (DAS) by testing object recognition and scene stitching through high fidelity, real-time scene simulation. Whether a land, air, sea, or space platform is being used, any multi-aperture, real-time imaging system can be tested with the A²EOSTIM. Visual environments are created with graphics processing. The system includes Modtran visual models and support many other file types. An expansive library of motion models and a consistent, intuitive user interface are provided by our A²PATS™ product line. Between A²EOSTIM and A²PATS, Textron Systems has everything you need for multi-spectral simulation, from visual to SWIR to RF.

TextronSystems.com

TEXTRON Systems

▸ PUSHING PAST POSSIBLE

ADVANCED ARCHITECTURE ELECTRO-OPTICAL STIMULATOR

BENEFITS

- Test as you develop
- Mitigate costs and time of operational tests
- Validate detection and identification capabilites in real time

APPLICATIONS

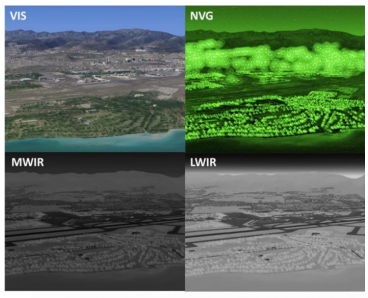
- Automotive 360° Bird's eye view systems
- Aircraft Distributed Aperture Systems (DAS)
- Maritime Photonics Mast systems
- Tethered / Mounted Persistent Surveillance Systems
- Digital video injection and collimated / projected scene applications

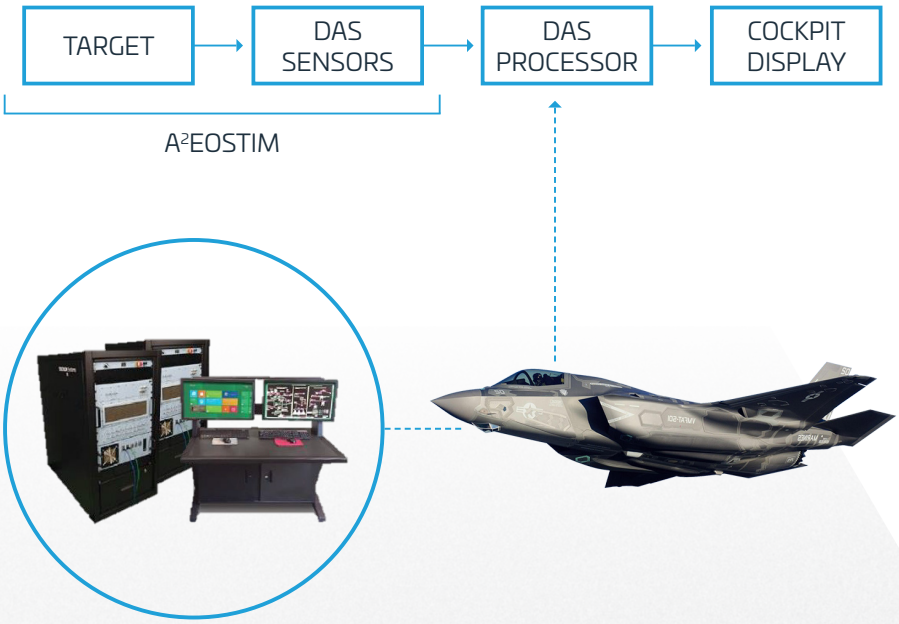
FEATURES

- Proven A²PATS User Interface (UI) & scenario controller
- CHIMAERA™ Scene engine provided by JRM Technologies
- Established, high-fidelity A²PATS mathematical motion models
- Full spherical environment simulation
- Simulates dynamic weather, multiple orders of reflection, and camera / sensor effects (UI) & scenario controller
  - Flare, Smoke, Dust, Plume, Fire, and thermal reflection
- Generates environments and effects in real-time

CAPABILITIES

- 16-bit, high-fidelity digital scene injection
- Spectrum replication from 0.20 – 25.0 µm
- Physics-based sensor modeling, including all major optical, detector, and electronics effects
- Supports U.S. Government Signature Model codes
- 8-24-bit DP1.4 2048x2048 @ 30-120Hz, 10 Gigabit Ethernet
- DIS real-time network interfaces





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