

# A<sup>2</sup>EOSTIM



## TEST, TRAINING & SIMULATION

### STIMULATOR FOR DISTRIBUTED APERTURE SYSTEMS

Textron Systems' Advanced Architecture Electro-Optical Stimulator (A<sup>2</sup>EOSTIM) 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 A<sup>2</sup>EOSTIM. 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 A<sup>2</sup>PATS™ product line. Between A<sup>2</sup>EOSTIM and A<sup>2</sup>PATS, Textron Systems has everything you need for multi-spectral simulation, from visual to SWIR to RF.

[TextronSystems.com](http://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 capabilities 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 A<sup>2</sup>PATS User Interface (UI) & scenario controller
- > CHIMAERA™ Scene engine provided by JRM Technologies
- > Established, high-fidelity A<sup>2</sup>PATS 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  $\mu\text{m}$
- > 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

