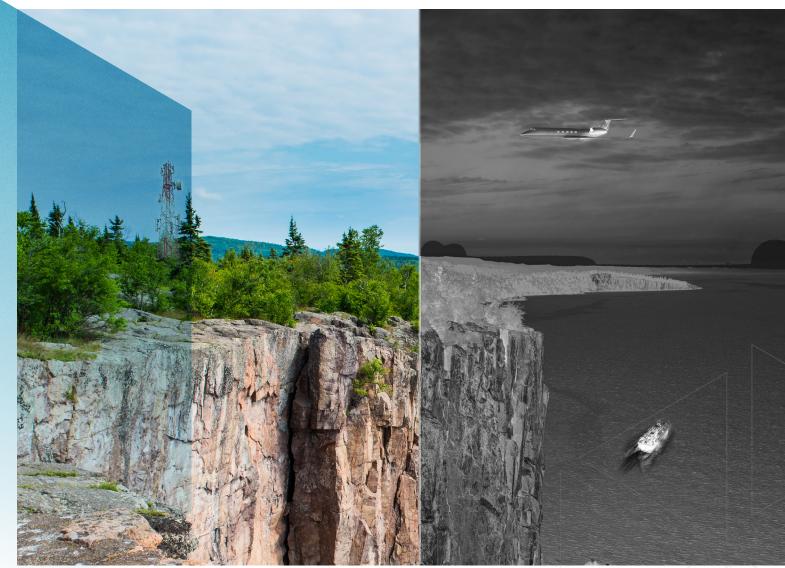# A²EOSTIM

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

TARGET → DAS SENSORS → DAS PROCESSOR → COCKPIT DISPLAY

A²EOSTIM