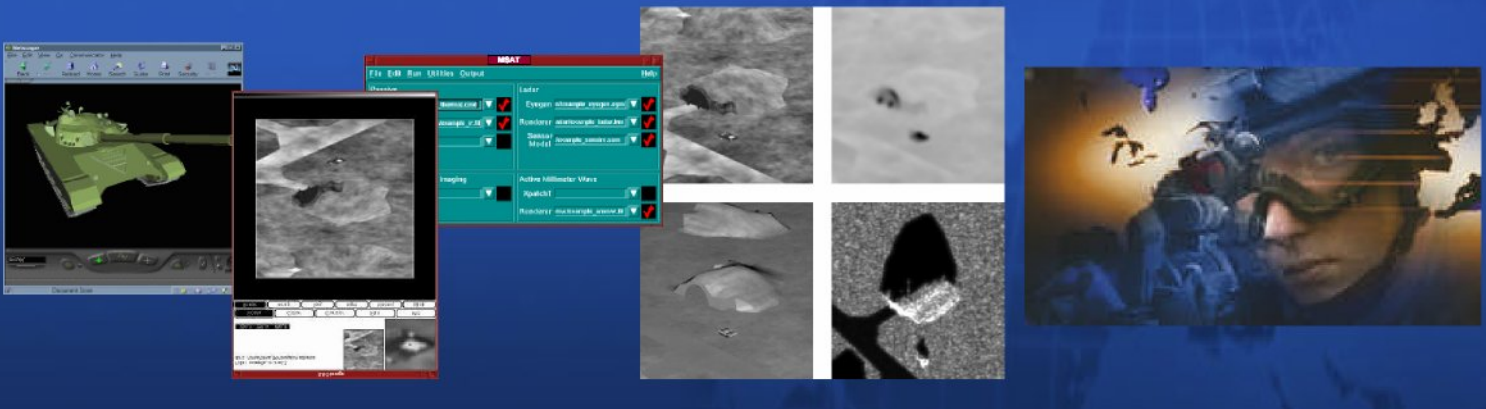


MSAT

Multi-Sensor Analysis Toolkit



Summary

- Based on U.S. Air Force accredited signatures code.
- Extensively used by U.S. defense labs and contractors.
- Affordable sensor evaluation—MMW Radar, Infrared (IR), and Laser Radar (Ladar)
- Over 10 years of continuous code development and application.
- Multiple output formats and user friendly GUI driven.
- Validated against real world sensor data for accuracy.
- MSAT is exportable based on the end user and application.

MSAT is an affordable, exportable, and accurate infrared (IR), millimeter wave radar (MMW), and laser radar (Ladar) scene rendering software application.

The Multi-Sensor Analysis Toolkit (**MSAT**) is an engineering design and analysis application for accurate and realistic generation and visualization of dynamic synthetic scenes based on a sensor's design characteristics. **MSAT** models mid-wave to long-wave passive infrared sensors, active millimeter wave sensors, and laser-radar (LADAR) sensors. The user establishes the synthetic scene and dynamics, enters the sensor characteristics and orientation, sets the environmental conditions, then MSAT does the rest by producing radiometrically accurate scenes for analysis and evaluation.

MSAT generates scenes from any orientation and location on a stationary or user defined moving platform. Sensor parameters include noise, spatial, and spectral response characteristics in a user defined environment including time of day and temperature. Three dimensional target models include materials types and properties.

MSAT is based on more than 10 years of continuous U.S. Air Force development and application. Excelerate worked with government and industry to make MSAT available to the international community.

For more information, please contact:

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U.S. export license required.
Contact Excelerate to see if you qualify.

MSAT

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Suggested Minimum Computer Specifications:

- 3.4 GHz Pentium 4 or Better
- 3 GB Memory Minimum
- 800 GB Harddrive
- Windows XP Professional or Linux
- Dual Monitors

Passive Infrared:

Produces infrared imagery composed of a thermal response model and image generator. Provides signature generation capability from the visible through millimeter wave spectral regions.

Active MMW Channel:

Accurately generates radar signatures and imagery as a function of range, doppler, and cross-range coordinates. Contains three main output signatures: synthetic aperture radar (SAR) imagery, pulse-Doppler maps, and real-beam radar maps.

LADAR Channel:

Produces range and cross section imagery based on monostatic surface scattering, atmospheric effects, and sensor motion.

