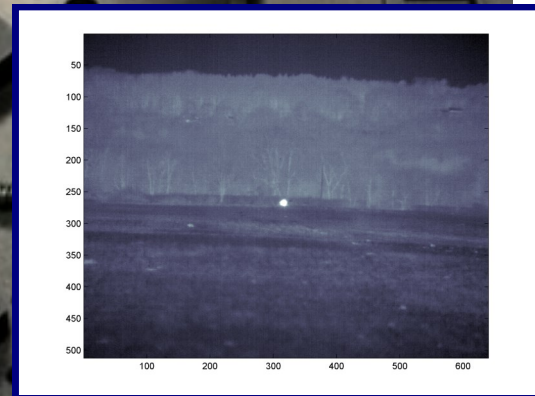


SciTec

Science & Engineering Innovation

SciTec is a product and services company
focused on the **advancement of remote
sensing technologies** for National Security

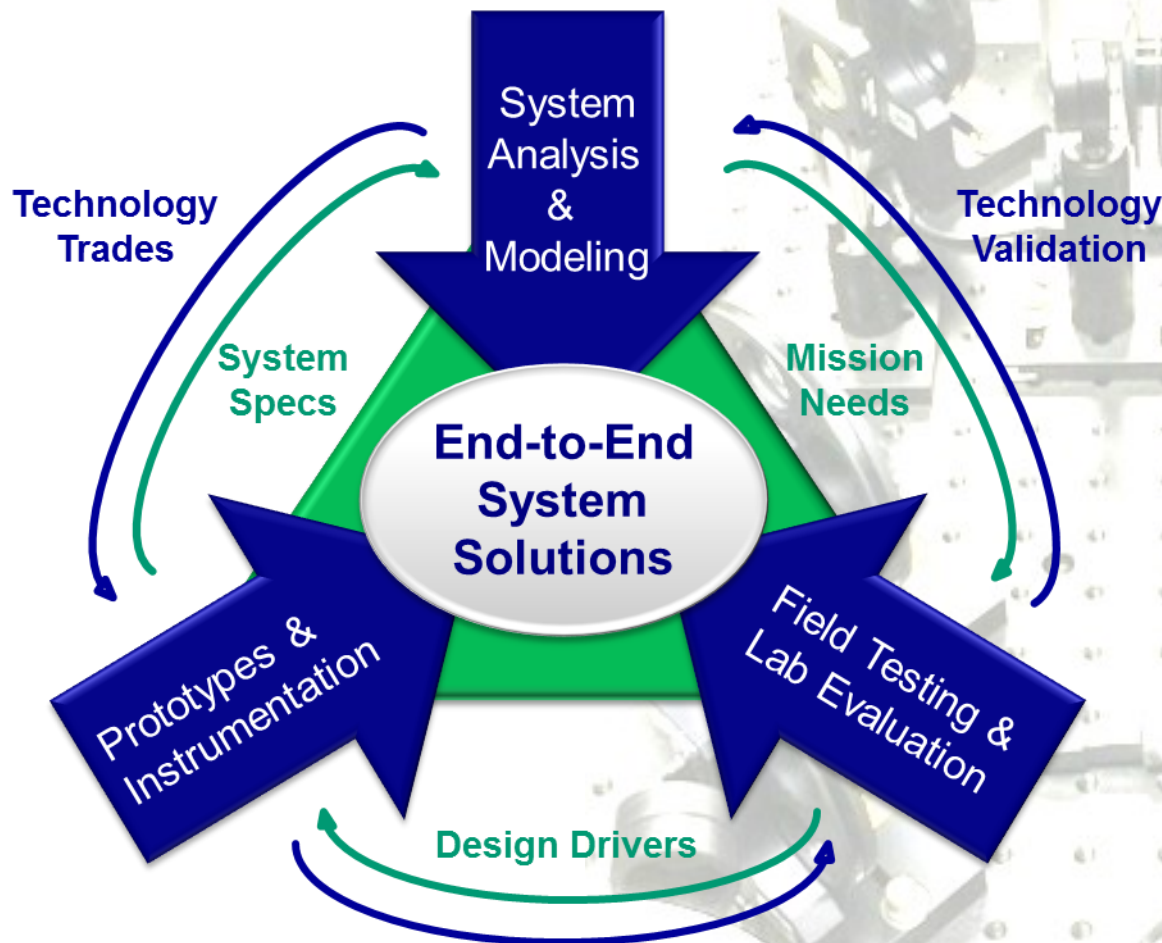


SciTec, Inc.
100 Wall Street
Princeton, NJ 08540-1523
www.scitec.com

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The SciTec “R&D Triad”



State of the Art Prototypes & Systems

SciTec advances the state-of-the-art in remote sensing through the application of interrelated activities of systems analysis, rapid prototyping, and test. The SciTec R&D Triad represents the foundation of our system development culture and thought process.

SciTec, Inc. is a Certified Small Business with Offices and Operating Locations in:

Princeton, NJ

Boulder, CO

Dayton, OH

Colorado Springs, CO

Huntsville, AL

Herndon, VA

Capabilities Overview

R&D MISSION AREAS

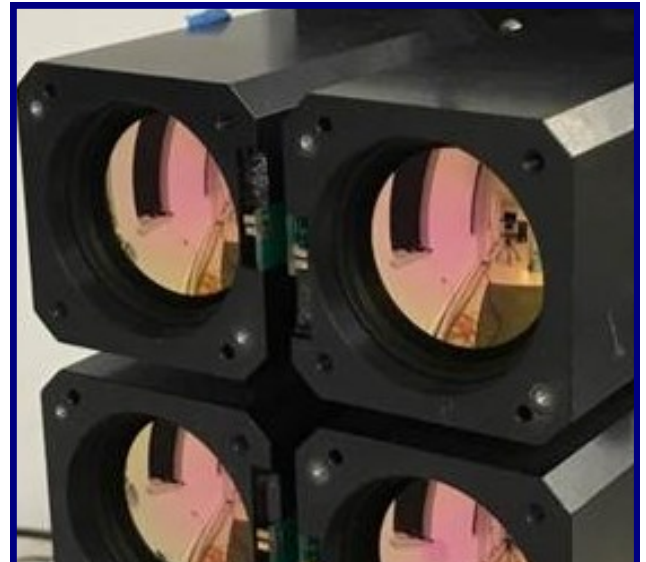
Geospatial Intelligence
Integrated Air & Missile Defense
Measurement & Signature Intelligence
EO/IR/Laser Threat Countermeasures
Space and Battlespace Awareness

CORE COMPETENCIES

Sensor and processor design
Measurement, calibration, test and evaluation
Sensor and system modeling
Algorithm development
Real-time signal processing
GUI development and integration
Mission planning and dynamic cueing
Atmospheric and environmental phenomenology
Target signature predictions and phenomenology
Custom instrument design and fabrication
Field test planning and execution

RESOURCES

Secure work areas & networks
High performance computing environment & tools
Optics & Instrumentation Lab
Fabrication Shop
Specialized databases and tools



Contact: Jim Bower

Cell: (571) 344-3009

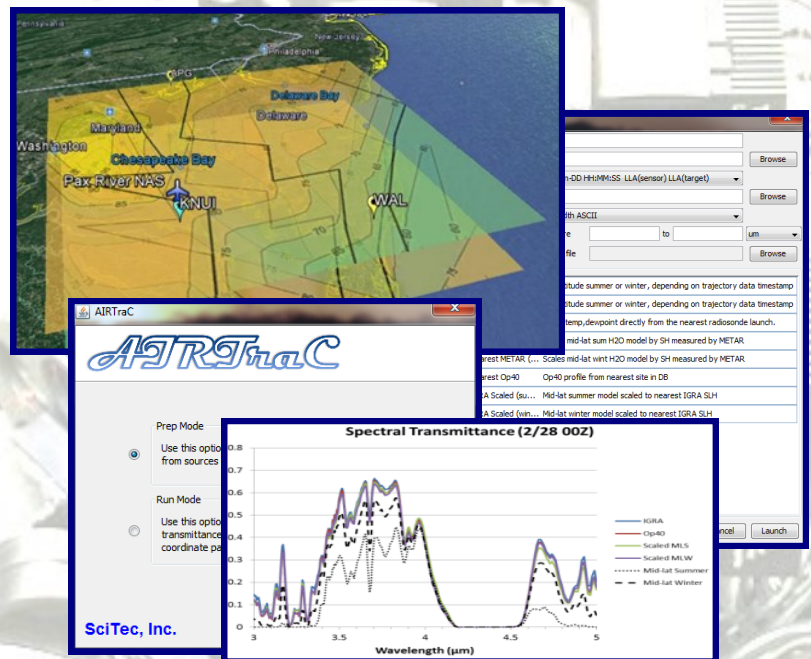
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FEATURED SYSTEM - AIRTRAC

SciTec's **Atmospheric Infra-Red Transmittance Calculator** software application provides Test & Evaluation personnel with a robust, highly automated tool to accurately and quickly determine atmospheric transmission for **remote infrared sensor testing and calibration**. This high-fidelity software application provides increased test flexibility and significantly reduces costs by eliminating the need for multiple weather balloon collections or sophisticated measurement equipment.



Contact: Dr. Sean Stratton

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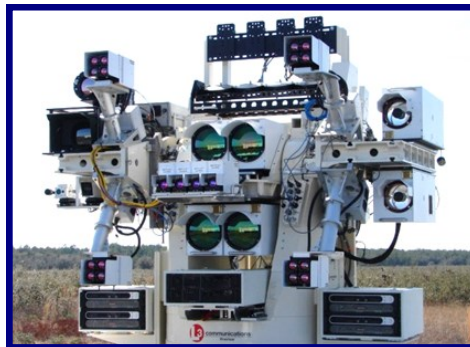
SciTec seeks opportunities with Government IR sensor programs and prime contractor developers to provide test and evaluation services. SciTec also seeks partners to license the AIRTraC application.

4 Generations of Countermeasure Test Equipment

QRC



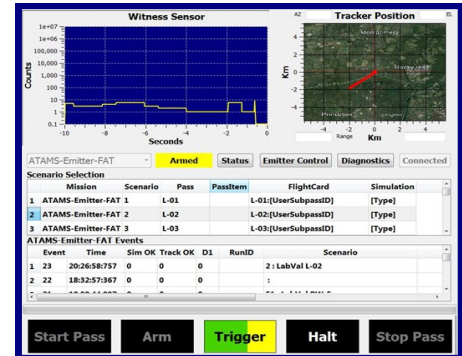
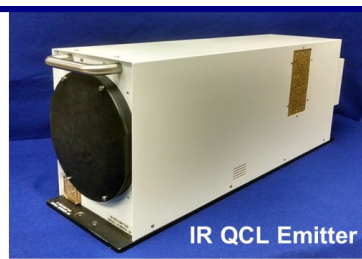
JMITS



MSALTS



ATAMS



SciTec's **Advanced Tracker and Multispectral Simulator (ATAMS)** represents the 4th generation of our infrared countermeasures test instrumentation. ATAMS simulates MANPADs signatures to stimulate test aircraft's onboard Aircraft Survivability Equipment and record the response to validate effectiveness.

FEATURED SYSTEM - ATAMS

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FEATURED CAPABILITY - EOIR

For over three decades, SciTec has been a leader in the research, development and implementation of real-time algorithms and tools supporting **Electro-Optical Infra-Red** (EOIR) processing and exploitation for DoD, the Intelligence Community and Missile Defense. Key technologies include:

Real-time Detection and Tracking

Advanced Threat Typing

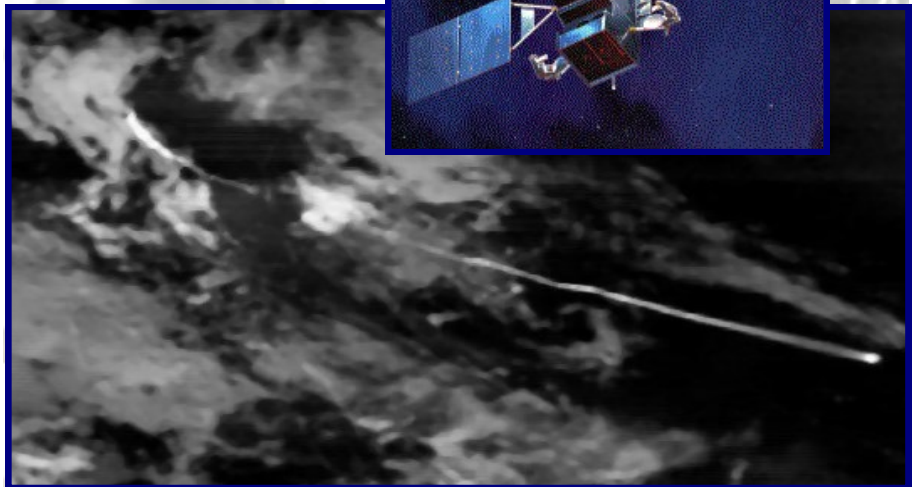
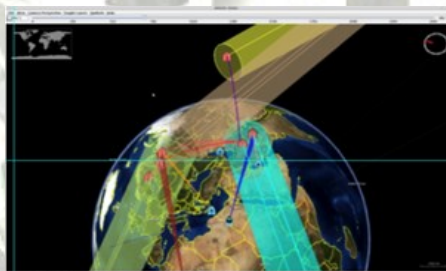
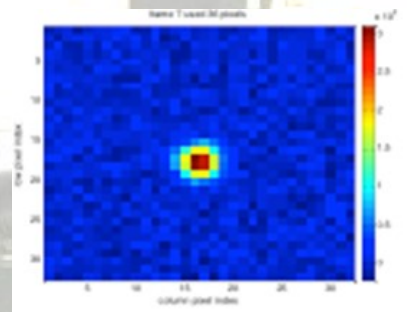
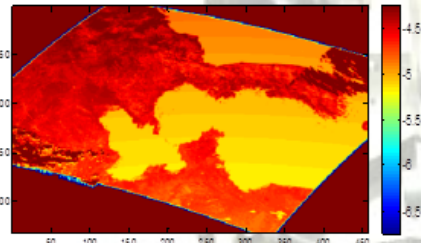
Intercept and Battle Damage Assessment

Automated Cueing & Situational Awareness

Scene content and activities detection and characterization

On-board Processing

SciTec implements these capabilities within Government frameworks and applies standardized formats.



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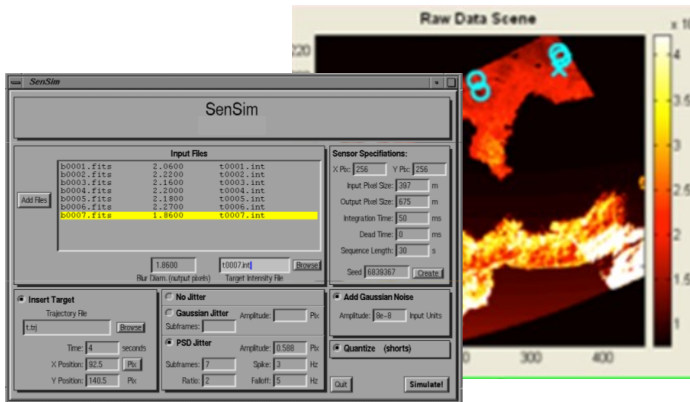
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Algorithm Development and Software Select Applications

SNAP & SENSIM

EO/IR Sensor Simulation Framework



High-fidelity Sensor Modeling

Staring and Scanning Sensors

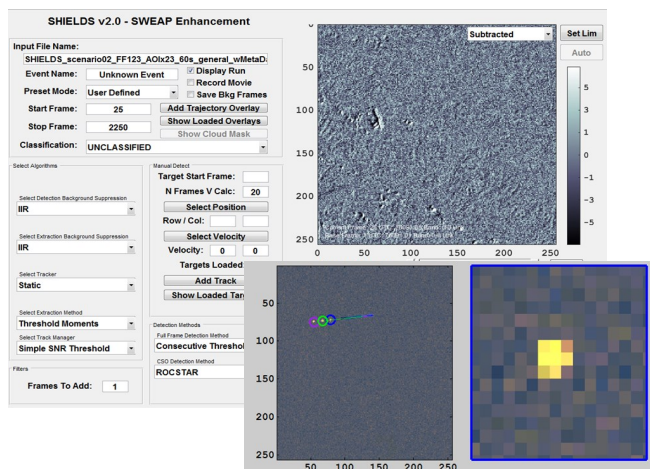
UV through LWIR

Terrain, Environment and Target models

Verified during several joint agency studies
and post-sensor deployment testing

SHIELDS

EO/IR Mission Data Processing Framework

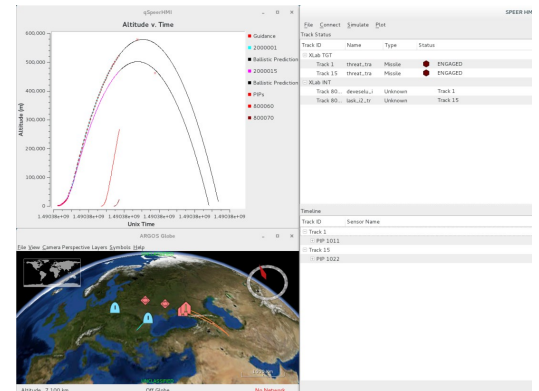


Mature algorithms for all functions in the image chain

Flexible selection of functions, including classifiers derived using machine learning

Best-in-class detection and tracking of low SNR targets

Mission Planning & Assessment



SPEER

Multi-phenomenology data exploitation and fusion for post intercept assessments

Multi-tiered decision architecture for target characterization and typing

Enhanced situational awareness via operator informed GUIs

Shared code base with mission planning and dynamic cueing applications

SciTec's rich phenomenological and systems understanding guides our development of state-of-the-art sensors and processing algorithms. Recent advances include the applications of machine learning and machine-to-machine interfaces to speed automation.

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