



CHECKPOINT PROPERTY
SCREENING SYSTEM

USING AI TO ADDRESS TODAY'S THREATS WITH TOMORROW'S TECHNOLOGY



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NEXT-GENERATION X-RAY SECURITY SOLUTIONS

Based in Metro Atlanta, Georgia, ScanTech AI Systems, Inc. ("ScanTech AI") is a global innovator in advanced X-ray security inspection technology. For over a decade, we've led the industry in transforming traditional X-ray methodologies into cutting-edge, AI-driven Computed Tomography (CT) solutions.

Our mission is simple: deliver faster, smarter, and more accurate detection of contraband, theft, and hazardous materials—empowering security professionals to protect critical infrastructure worldwide.

Deployment Markets:

• GOVERNMENT AND MILITARY FACILITIES



• AIRPORTS AND TRANSPORTATION HUBS



• PRISONS AND CORRECTIONAL CENTERS



• DATA CENTERS AND MANUFACTURING PLANTS



• POWER PLANTS, REFINERIES, AND PETROCHEMICAL SITES



• STADIUMS, ARENAS, AND ENTERTAINMENT VENUES



**EVERY DAY, OUR TECHNOLOGY SUPPORTS
PEOPLE AND SYSTEMS, KEEPING THE WORLD SAFE.**



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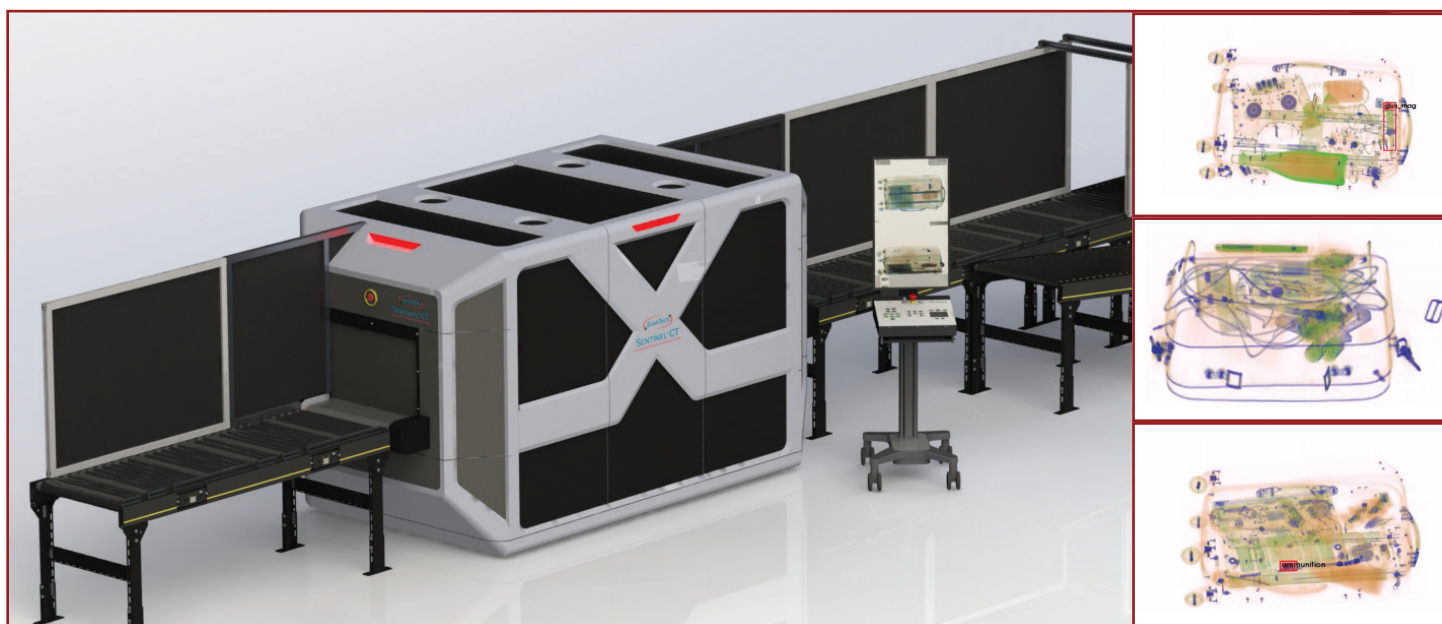
THE SENTINEL® CT

Advanced Screening for Today's Checkpoints

The **SENTINEL® Fixed-Gantry CT** system redefines checkpoint screening performance. Unlike traditional “rotating-gantry” scanners, our fixed-gantry architecture delivers superior image quality, faster throughput, and dramatically lower maintenance.

Why Fixed-Gantry CT?

- Higher image resolution with lower noise
- Faster processing and throughput speeds (800+ bags/hour)
- Fewer moving parts — safer for operators and screened individuals
- Lower power requirements (standard 120/240VAC single phase)
- Reduced infrastructure cost and footprint



The **SENTINEL CT**'s design integrates four interlaced, multi-energy X-ray generators and detectors that scan from multiple angles to build high-resolution, 3D volumetric reconstructions. This tri-axis scanning approach delivers unmatched visibility into concealed threats.



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RAY-TRACE BIOPSY™ (RTB) TECHNOLOGY

Our exclusive **Ray-Trace Biopsy™** technology provides industry-leading material discrimination and explosive detection. Using advanced CT algorithms, RTB isolates areas of interest within a scanned item, then performs a series of laser-like “biopsies” from multiple axes—each at approximately one-millimeter resolution.

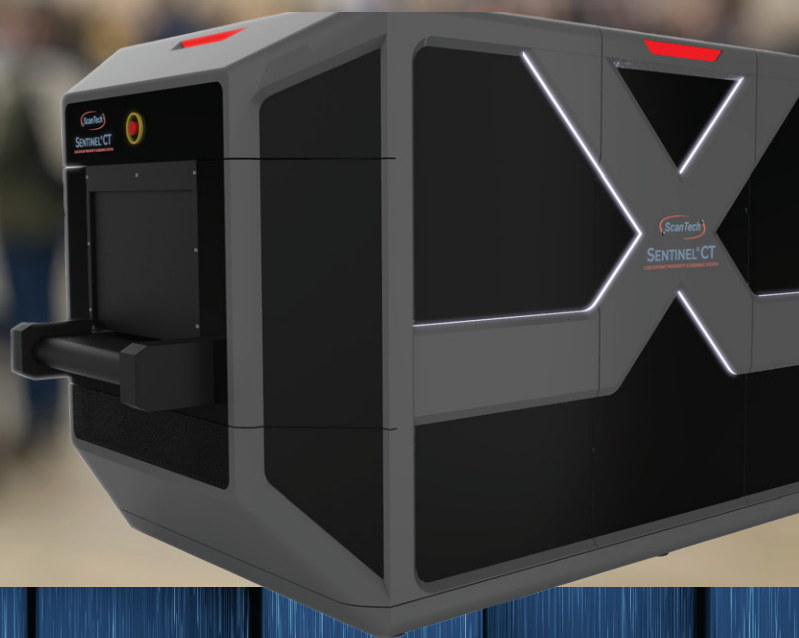
RTB achieves high detection rates for explosives and contraband while maintaining low false alarm rates and rapid scanning speeds—enhancing checkpoint productivity and operational efficiency.

Integrated into **SENTINEL CT**, Ray-Trace Biopsy technology helps operators process screenings more effectively, providing faster, more reliable results and industry-leading throughput.

This process:

- Differentiates harmless organic materials from explosives or contraband
- Provides photo-realistic, data-rich visualizations of threat materials
- Minimizes false alarms while improving detection accuracy

The result: greater throughput, fewer secondary screenings, and smoother checkpoint flow.



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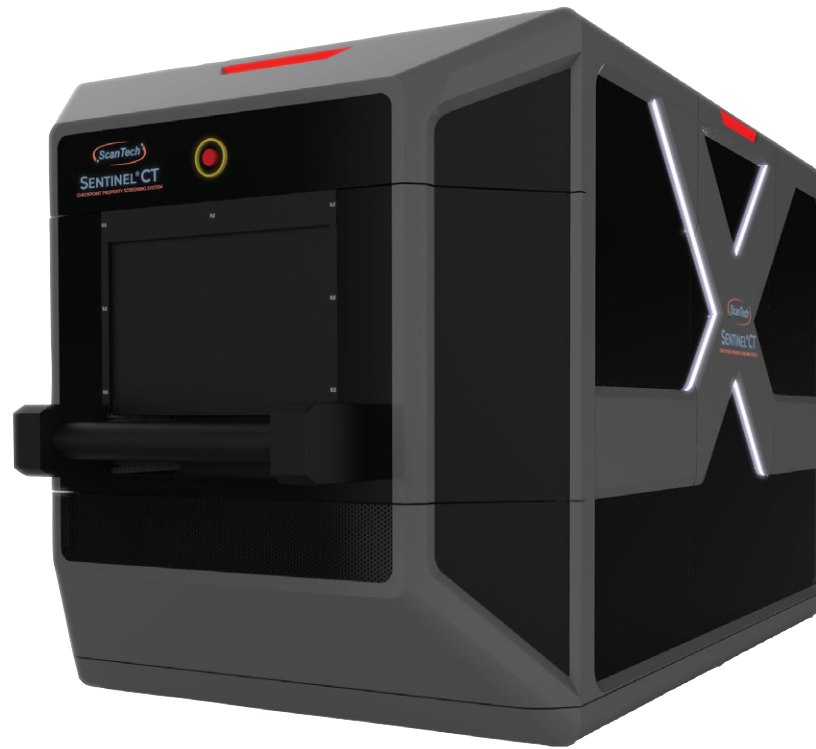
CT ARCHITECTURE ADVANTAGES

The **SENTINEL CT**'s multiple scanning axes (versus the single slice typical in rotating gantries) deliver:

- Superior 3D spatial recognition in cluttered environments
- Minimal maintenance and downtime
- Maximum detection capability at the lowest cost of ownership

Key Features

- Enhanced detection of prohibited and theft items
- AI-based liquid, flammable, and explosive detection
- Seamless integration with existing checkpoint systems
- Modular design for easy upgrades and service
- Industry-leading baggage throughput
- Large UHD 4K operator console
- Fully assembled delivery for rapid deployment



Operational Benefits

- Minimal moving parts → lower maintenance and repair costs
- Compact, lightweight design → reduced floor loading and power demands
- Plug-and-play setup → ready to scan upon installation

Security Certifications

The **SENTINEL CT** complies with and exceeds the industry's highest safety and performance standards:

- TSA Tier 2 Explosive Detection certified
- UL Safety and EMC certified
- ECAC Standard 3 and TSA CPSS certifications pending



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