



VACIS® IP6500 integrated cargo-inspection system

X-ray imaging plus identification of radioactive material

A high-speed, comprehensive scanning solution — for security and commerce



The VACIS IP6500 system performs x-ray imaging and spectroscopic radiation detection in the typical flow of checkpoint traffic.

The challenge: inspect every cargo container without slowing the flow of commerce. The solution: the VACIS IP6500 integrated inspection system — a powerful, practical solution for high-volume scanning operations.

The system's high-energy x-ray feature provides detailed images of container contents, even through heavy shielding. Its spectroscopic radiation detection locates and identifies nuclear material. Its OCR system identifies containers as they are scanned. And its database component integrates and delivers scanning images and data on demand.

Built for high throughput, the system can scan more than 150 containers per hour in the typical flow of traffic at gates or other checkpoints. With its small footprint and low radiation dose, the system can be used in very limited space. And by revealing weapons, special nuclear material (SNM) and other contraband, the system can greatly reduce the need for costly manual inspections.

A powerful, practical scanning solution

The VACIS® IP6500 system combines three powerful scanning technologies in a fast, compact unit.

High-energy x-ray imaging

The VACIS IP6500 system can reveal threats and contraband through more than a foot of steel. And its low radiation dose increases safety and reduces space requirements.

Radioisotope identification

The system can detect, locate and identify even heavily shielded SNM with a false alarm rate of less than 1 in 10,000 — meeting or exceeding challenging ANSI and IAEA standards.

OCR container identification

The system's OCR component automatically identifies containers as they are scanned.

Fast and compact

The system can scan more than 150 containers per hour as trucks drive through without stopping. With a typical operating footprint of just 8 by 5 meters — including exclusion zone — the system is ideal for use in the tight spaces of real-world cargo facilities.

Data integration and display

The system quickly integrates scanning images and data for each container. Security personnel can view images and data for any container at any time.

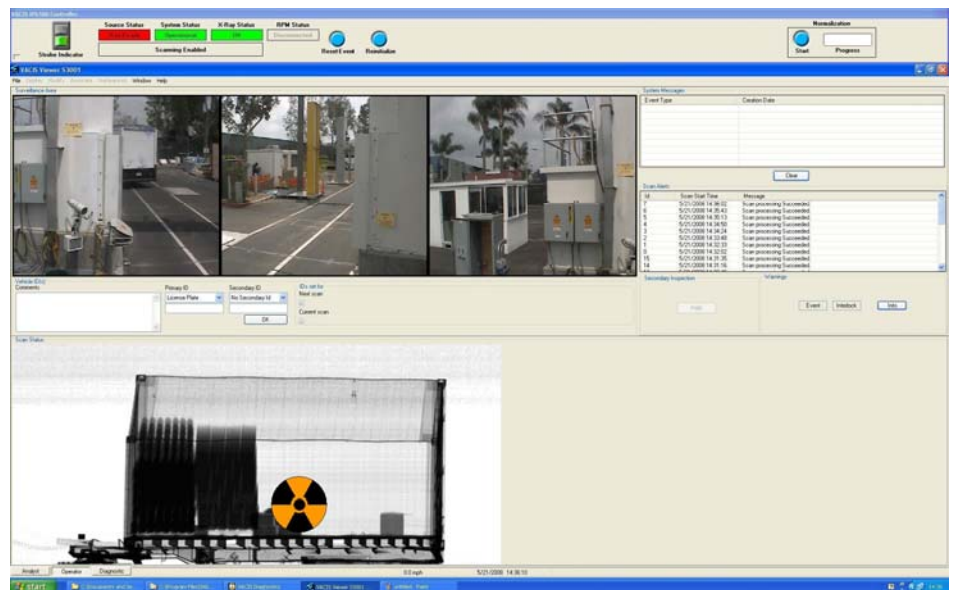
SAIC — a world leader

SAIC has provided hundreds of VACIS imaging systems for customs, security and military applications around the world. Every VACIS system is backed by SAIC's global installation, training, maintenance and technical support.



Capabilities

- High-energy x-ray imaging
- Spectroscopic radiation detection and identification
- OCR container identification
- High throughput — more than 150 containers per hour
- Fast data integration and display
- Very small operating space; requires no external structure or shielding
- Extremely low radiation dose for safety and small size



The VACIS IP6500 system delivers integrated scanning images and data in real time. In this example, the scanning image at the lower left reveals a radiation source near the center of the container.

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