VACIS® MLX | MOBILE HIGH-ENERGY X-RAY

Versatile, Compact Mobile X-Ray Scanning with Dual-Energy Material Discrimination

The VACIS MLX is the newest solution in the VACIS product line and features the shortest wheelbase and the lightest weight in its class. This new high energy X-ray system combines versatile mobility with technology that is proven through hundreds of VACIS system deployments.

Mounted on a compact, rugged truck chassis, the MLX features a powerful linear accelerator X-ray source, sensitive detectors, and dual-energy material discrimination. With these capabilities, inspectors can quickly and accurately search for weapons, contraband, undeclared cargo, and other items of interest in passenger vehicles and cargo containers. The system has been designed to operate in a wide range of conditions and scenarios.

With only two axles and weighing less than 18 metric tons, the MLX is lighter, more compact, and more maneuverable than other mobile systems with linear accelerator X-ray sources. The system's operational flexibility enables the scanning of an entire vehicle or specific cargo areas. It also includes a reduced radiation safety exclusion zone. Together, these features result in greater throughput, reduced operating and maintenance cost, and less environmental impact.

Features & Benefits

- Offers a unique, compact truck chassis base that enables the system to be easily maneuvered in tight or crowded spaces
- Gives customers the flexibility of high throughput in a stationary or mobile operation mode, along with the option to scan vehicles or cargo
- Uses a 6/4 MeV linear accelerator X-ray source with dual-energy material discrimination that helps operators quickly pinpoint and identify organic vs. inorganic threats
- Powered by Mezzo, Analogic's enterprise software platform



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A Flexible Mobile X-Ray Inspection System

The VACIS MLX provides two operating modes that can be utilized in a variety of scanning scenarios:

- **Moving mode.** In this flexible mode, the system moves past stationary vehicles, quickly scanning them from bumper to bumper in a single pass.
- **Stationary mode.** In this high-throughput mode, the system scans vehicles as they drive through the scanning area under their own power.

In both modes, the entire target is scanned from end to end, including occupants (where applicable). Alternately, the system can be configured to scan cargo only in stationary mode. Its dual-energy material discrimination provides color-coded scan images that quickly identify organic threats.

Powerful, Easy to Use Features

Integrated with the Analogic Mezzo™ enterprise software platform, operators can quickly and easily view, enhance, and annotate scanned images to reveal threats, as well as record hold/release decisions with the scan transaction. Mezzo utilizes artificial intelligence and machine learning (AI/ML) to help the operator adjudicate images. The system can operate from compatible shore power or independently from an onboard generator.

The VACIS MLX combines versatile mobility with technology that is proven in the hundreds of VACIS systems currently deployed worldwide. This mobile inspection system is an ideal solution wherever mobile inspection scanning is required.

Specifications

PENETRATION	320 mm of steel
SOURCE TYPE	Linear accelerator
SOURCE ENERGY	6/4 MeV dual-energy
DIMENSIONS (STOWED)	8 m L x 2.6 m W x 4 m H
DIMENSIONS (DEPLOYED)	9.1 m L x 7.3 m W x 5.4 m H
OPERATING TEMPERATURE	-30 to +55˚C
EMISSIONS	Meets Euro 6

Capabilities

- Complies with ANSI and IEC dose limits for scanning occupants in vehicles (where applicable) in security operations
- Supports two modes and a wide range of scanning scenarios
- Operates on an internal generator or shore power
- Provides quick deployment in 15 minutes or less

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