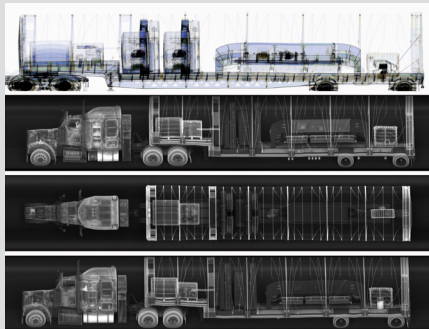


EAGLE P60 ZBx

HIGH-ENERGY, DRIVE-THROUGH CARGO & VEHICLE INSPECTION SYSTEM

KEY FEATURES AND BENEFITS

- High penetration and resolution combined with photo-like Z Backscatter imaging for comprehensive imaging of cargo and vehicles
- Throughput of up to 100 vehicles per hour
- Safe scanning of occupied vehicles



The Eagle P60 ZBx produces four X-ray images in a single scan: a high-energy transmission image and three Z Backscatter images.

The Eagle[®] P60 ZBx cargo and vehicle inspection system is an advanced multi-technology, multi-view, drive-through portal designed to quickly screen cargo for threats and contraband. The high-performance system utilizes both dual-energy transmission X-rays (Tx) as well as low-energy Z Backscatter[®] X-rays (Bx) in a high-throughput configuration.

The dual-energy Tx technology allows for thorough inspection of densely loaded cargo containers. The multi-view, low-energy Bx technology allows for a complete scan of the entire vehicle, highlighting organic materials for enhanced detection of contraband such as drugs, currency, cigarettes, and explosives.

The transmission and Z Backscatter images provide complementary information to give the operator a comprehensive view of the contents of the vehicle under inspection. The extremely low radiation dose means the system is safe for all drivers and operators.

SPECIFICATIONS

EAGLE P60 ZBx

TYPICAL PERFORMANCE (Tx)

- **Steel Penetration:** 330 mm
- **Wire Resolution:** 1.5 mm

OPERATING FEATURES

- **X-ray Source:** 6 MeV (Tx)
- **Crew:** Scan coordinator and image analyst
- **Scanning Speed:** 3–8 km/hr

SYSTEM DIMENSIONS¹ AND SPECIFICATIONS

Overall Dimensions

- **Width:** 8 m (26 ft 3 in)
- **Height:** 6.3 m (20 ft 8 in)
- **Depth:** 12.8 m (42 ft)

Maximum Vehicle Dimensions

- **Width:** 2.8 m (9 ft 2 in)
- **Height:** 4.6 m (15 ft 1 in)

ENVIRONMENT

- **Operating Temperature:** -20 °C to 40 °C (-4 °F to 104 °F)

HEALTH AND SAFETY

- **Shielded Radiation Control Area (RCA)^{1,2} (80 trucks per hour):** 26.3 m L x 11.4 m W (86 ft 3 in L x 37 ft 5 in W)
- **Radiation Dose at RCA Boundary³:** 0.5 µSv in any one hour
- **Radiation Dose to Driver:** Less than 0.25 µSv per scan
- **Radiation Dose to Crew:** 0.5 µSv in any one hour
- **Radiation Dose to Cargo:** Less than 20 µSv per scan

¹ Total site footprint may be larger than the system dimensions and the associated radiation control area and varies in size depending on options, the concept of operations, and site-specific requirements.

² L = Scan direction. W = Beam direction.

³ Radiation dose at the RCA boundary is provided for reference only. Customers should determine the boundary dose based on site conditions, local regulations, operational factors, and other considerations.

SYSTEM OPTIONS

- **Top-Down Transmission Imaging:** Creates a dual-energy transmission X-ray image from the top, low-energy X-ray generator
- **CabScan® Mode:** Safely scans the cab of the truck, from front bumper to start of cargo
- **Integrated Peripheral Devices:** Automatic license/number plate recognition system, automatic container code recognition system, and manifest scanner
- **Integrated Radiation Detection:** Gamma or gamma/neutron
- **Cold Weather Package:** For operating temperature of -40 °C to 40 °C (-40 °F to 104 °F)
- **Hot Weather Package:** For operating temperature of -20 °C to 55 °C (-4 °F to 131 °F)

InSight® Intelligent Image Analytics

- **InSight High Density:** Identifies high-density anomalies (transmission image only)

The performance characteristics and photos in this document are indicative and for information only and do not represent any specific system configuration. Specifications and features of individual systems will vary based upon customer requirements, operation, supplied options, and other factors. Customers must refer to the relevant quote, proposal, or contract for the definition of a system configuration, including specifications and optional items. Due to continual development of our products, we reserve the right to amend any of the information listed here without notice. Please note that due to U.S. laws and regulations, not all products are available for sale in all countries without restriction.

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