

EAGLE T60

HIGH-ENERGY, TRAILER-MOUNTED INSPECTION SYSTEM

KEY FEATURES AND BENEFITS

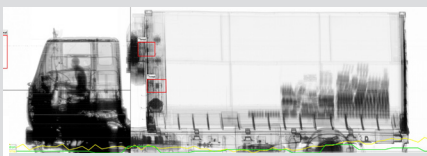
- High-energy inspection system on trailer platform allows for efficient screening of vehicles
- High-throughput screening of up to 80 trucks per hour
- Deployed in minutes for fast response to changing operational requirements



The Eagle® T60 is a trailer-mounted, high-energy inspection system with material discrimination for efficient screening of cargo and vehicles for threats and contraband. The fully self-contained unit can be easily towed and rapidly deployed, with several operating modes for additional flexibility.

The trailer scans stationary cargo in autonomous drive-by mode, allowing operators to screen unoccupied vehicles for bumper-to-bumper inspection. In optional portal mode, the trailer scans vehicles driven through the X-ray tunnel, which can be used either with automatic cab exclusion or with CabScan® mode to image the entire vehicle. The on-board inspection office can house up to four inspectors to facilitate high-throughput operation.

The Eagle T60 scans vehicles up to 5 meters in height and 2.8 meters in width without corner cutoff. The system is built on a commercially available, heavy-duty, solid-frame trailer chassis with 2 rear axles and a standard fifth wheel for rapid and safe connection to standard tractor units capable of towing a load of at least 25 metric tons.



The Eagle T60 high-energy X-ray image with optional CabScan mode and integrated radiation detection

SPECIFICATIONS

EAGLE T60

TYPICAL DRIVE-BY PERFORMANCE

	T60-S	T60-T	T60-R
Steel Penetration	310 mm	330 mm	320 mm
Wire Resolution	1.2 mm	1.2 mm	0.8 mm
Spatial Resolution	4 mm (H) 4 mm (V)	4 mm (H) 4 mm (V)	3 mm (H) 3 mm (V)

OPERATING FEATURES

- **X-ray Source:** 6 MeV
- **Crew:** Up to 4 analyst stations and optional ground guide
- **Scan Modes:** Autonomous drive-by mode or optional portal mode
- **Scan Direction:** Bi-directional in drive-by mode
- **Scanning Speed:** 0.13, 0.26, 0.4 m/s in drive-by mode; 3–8 km/hr in portal mode
- **System Throughput:** Up to 80 trucks per hour in portal mode
- **Set-Up Time:** 20 min in standard operating environment
- **Shore Power Requirements (option):** 50 Hz: 400 V, 63 A, 44 kVA; 60 Hz: 220 V, 125 A, 48 kVA

SYSTEM DIMENSIONS¹ AND SPECIFICATIONS

Stowed Dimensions

- **Length:** 11.9 m (39 ft 1 in)
- **Width:** 2.5 m (8 ft 2 in)
- **Height:** 4 m (13 ft 1 in)

Deployed Dimensions

- **Length:** 11.9 m (39 ft 1 in)
- **Width:** 8.3 m (27 ft 3 in)
- **Height:** 5.9 m (19 ft 4 in)

Maximum Scanned Object Dimensions

- **Width:** 2.8 m (9 ft 2 in)
- **Height:** 5 m (16 ft 5 in)
- **Minimum Scan Height:** 0.4 m (16 in) from ground

ENVIRONMENT

- **Operating Temperature:** -10 °C to 40 °C (14 °F to 104 °F)
- **Maximum Wind Speed:** 40 km/h

HEALTH AND SAFETY

- **Open Radiation Control Area (RCA) Boundary^{1,2} (80 trucks per hour):** 40 m L x 50 m W (131 ft L x 164 ft 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.

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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SYSTEM OPTIONS

- **Portal Mode:** Supports the drive-through scanning of traffic. Requires the purchase of traffic control and monitoring devices
- **CabScan® Mode:** While in portal mode, safely scans the cab of the truck from front bumper to start of cargo
- **Variable Boom:** Allows the operator to set the detector at 5–10 degrees from perpendicular to obtain an angled view of scanned cargo
- **Large Boom:** Allows for scanning objects 3.1 m (10 ft 2 in) wide and 5.1 m (16 ft 9 in) high
- **Integrated Radiation Detection:** Gamma or gamma/neutron
- **Integrated Peripheral Devices:** Automatic license/number plate recognition system, automatic container code recognition system, and manifest scanner
- **Extreme Cold Weather Package:** Extends the system operating temperature to -40 °C
- **Extreme Hot Weather Package:** Extends the system operating temperature to +55 °C

InSight® Intelligent Image Analytics

- **InSight High Density:** Identifies high-density anomalies

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