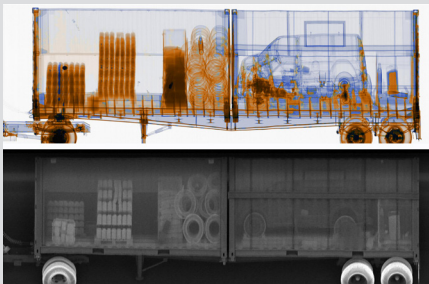


# EAGLE M60 ZBx

HIGH-ENERGY, MULTI-TECHNOLOGY MOBILE INSPECTION SYSTEM

## KEY FEATURES AND BENEFITS

- High-quality imaging with material discrimination
- Z Backscatter imaging for enhanced detection of organic threats and contraband
- Multiple scan modes for maximum flexibility



The Eagle M60 ZBx produces two X-ray images in a single scan: a high-energy transmission image and a Z Backscatter image.

The Eagle<sup>®</sup> M60 ZBx is an advanced mobile inspection system that combines high-energy transmission imaging with Z Backscatter<sup>®</sup> technology for comprehensive inspection of cargo and vehicles. The transmission image provides high penetration and resolution with material discrimination while Z Backscatter technology provides photo-like images that highlight organic threats and contraband such as drugs, currency, cigarettes, and explosives.

The Eagle M60 ZBx is a highly versatile system that offers multiple operational modes including drive-by mode, portal mode with CabScan<sup>®</sup> technology, driverless operation, and Z Backscatter-only scan mode. The system is easily driven over public roads and quickly deployed after arriving on site.

# SPECIFICATIONS

## EAGLE M60 ZBx

### TYPICAL DRIVE-BY PERFORMANCE

	M60-S	M60-T	M60-R
<b>Steel Penetration</b>	310 mm	330 mm	320 mm
<b>Wire Resolution</b>	1.2 mm	1.2 mm	0.8 mm
<b>Spatial Resolution</b>	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:** Minimum of two operators (driver and analyst); ground guide and additional analysts optional
- **Scan Modes:** Drive-by mode, Z Backscatter-only mode, and optional portal and CabScan modes
- **Scan Direction:** Bi-directional in drive-by mode
- **Scanning Speed:** 0.13, 0.26, 0.4 m/s in drive-by; 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 DIMENSIONS AND SPECIFICATIONS

#### Chassis

- **Mercedes-Benz® Truck:** As determined by country homologation

#### Stowed Dimensions

- **Length:** 11.0 m (36 ft 1 in)
- **Width:** 2.5 m (8 ft 2 in)
- **Height:** 4.0 m (13 ft 1 in)

#### Deployed Dimensions

- **Length:** 11.0 m (36 ft 1 in)
- **Width:** 8.0 m (26 ft 3 in)
- **Height:** 5.9 m (19 ft 4 in)

### ENVIRONMENT

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

### HEALTH AND SAFETY

- **Open Radiation Exclusion Zone (in drive-by mode; 25 trucks per hour):** 50 m x 40 m (164 ft x 131 ft 3 in)
- **Radiation Dose at Exclusion Zone Boundary:** 0.5 µSv in any one hour
- **Radiation Dose to Driver (in portal mode):** Less than 0.25 µSv per scan
- **Radiation Dose to Crew:** Less than 0.5 µSv in any one hour
- **Radiation Dose to Cargo:** Less than 10 µSv per scan

The performance characteristics and photos in this document are indicative and for information only and specifications may vary depending on scan speeds, options and other factors; the specific characteristics of individual systems may differ based upon customer requirements, operation, and supplied options. For systems that have already been purchased, please refer to the contract or purchase order for system specifications. In addition, due to continual development of Rapiscan Systems and AS&E products, we reserve the right to amend specifications 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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**US Operations**  
829 Middlesex Turnpike  
Billerica, MA 01821

**UK Operations**  
Prospect Way  
Victoria Business Park  
Biddulph, Stoke-on-Trent ST8 7PL

**Contact**  
Tel: +1.978.262.8700  
Fax: +1.978.262.0533  
rapiscan-ase.com

### 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
- **Driverless Mode:** System scans vehicles by autonomously moving between start and stop markers
- **Variable Boom:** Allows the operator to set the detector at 5–10 degrees from perpendicular to obtain an angled view of scanned cargo
- **Integrated Peripheral Devices:** License/number plate recognition system and container code recognition system
- **Extreme Cold Weather Package:** Extends the system operating temperature to -40° C
- **Extreme Hot Weather Package:** Extends the system operating temperature to +55° C
- **Car Scanning Ramp:** Stowed on board

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