

# RAPISCAN EAGLE RAIL CARGO SERIES

HIGH-ENERGY RAIL CARGO INSPECTION

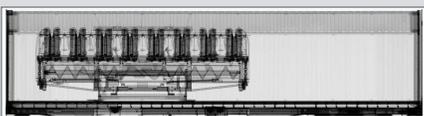
## KEY FEATURES AND BENEFITS

- Automated scanning of rail cars
- Available for single or multiple tracks
- High-speed configuration for scanning at up to 60 km/hr
- Material discrimination and optional radioactive threat detection



The Rapiscan Eagle<sup>®</sup> Rail Cargo Series of high-energy inspection systems enable automated scanning of dense cargo transported by rail, for verifying manifests and detecting contraband.

With high-quality X-ray images and Cargo Viewer software, the Rapiscan Eagle Rail Cargo Series reduces the need for manual inspection. The systems include a fully automated scanning control system that monitors the flow of rail cars, captures identification numbers, acquires high-resolution images of all cargo passing through the system, and controls the X-ray beam to scan only rail cargo specified by the operator. The system is available for single or multiple tracks as well as single or bi-directional scanning. A high-speed, single-track option is also available.



TOP: Transmission image of a 40-ft container

BOTTOM: Transmission image of a rail car

# SPECIFICATIONS

## EAGLE RAIL CARGO SERIES

The following specifications may vary based on individual site requirements.

### TYPICAL PERFORMANCE

	R60	R60-HS	R90
<b>X-ray Source</b>	6 MeV	6 MeV	9 MeV
<b>Steel Penetration</b>	310 mm	310 mm	340 mm
<b>Wire Resolution</b>	2 mm	2 mm	2 mm
<b>Spatial Resolution</b>	5 mm (H) 5 mm (V)	5 mm (H) 5 mm (V)	5 mm (H) 5 mm (V)

### SYSTEM DIMENSIONS

	R60	R60-HS	R90
<b>Overall Length</b>	20 m (65 ft 7 in)	20 m (65 ft 7 in)	20 m (65 ft 7 in)
<b>Overall Width</b>	24 m (78 ft 9 in)	19 m (62 ft 4 in)	24 m (78 ft 9 in)
<b>Overall Height</b>	11 m (36 ft 1 in)	7 m (23 ft)	11 m (36 ft 1 in)
<b>Tunnel Width</b>	8 m (26 ft 3 in)	2.5 m (8 ft 2 in)	8 m (26 ft 3 in)
<b>Tunnel Height</b>	3.4 m (11 ft 2 in)	3.4 m (11 ft 2 in)	3.4 m (11 ft 2 in)

### OPERATING FEATURES

- **Crew:** Minimum of one operator/analyst
- **Scan Modes:** Fully automated
- **Scan Direction:** Single or optional bi-directional
- **Scanning Speed:**
  - **R60 and R90:** 2–15 km/hr
  - **R60-HS:** 8–60 km/hr
- **System Throughput:** Up to 200 rail cars per hour

### ENVIRONMENT

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

### HEALTH AND SAFETY

- **Radiation Dose at Exclusion Zone Boundary:** 0.5 µSv in any one hour
- **Shielded Radiation Exclusion Zone:** Site specific
- **Radiation Dose to Crew:** 0.5 µSv in any one hour
- **Radiation Dose to Cargo:** < 20 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. In addition, due to continual development of Rapiscan Systems and AS&E products, we reserve the right to amend specifications without notice. Please note that due to U.S. laws and regulations, not all products are available for sale in all countries without restriction. Please contact your Rapiscan | AS&E Cargo Scanning & Solutions sales representative for more information or to discuss additional requirements.

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### SYSTEM OPTIONS

- **Integrated Radiation Detection:** Gamma or gamma/neutron
- **Extreme Cold Weather Package:** Extends the system operating temperature to -40° C
- **Extreme Hot Weather Package:** Extends the system operating temperature to +55° C
- **Low Minimum Scan Height:** Scan to rail (scan to base of cargo is standard)

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