

Rapiscan GaRDS™ Gantry

Rapiscan
systems

An OSI Systems Company

CARGO AND VEHICLE INSPECTION

Automated Scanning

High Throughput

Small Footprint

Cost Effective



The **Rapiscan GaRDS™ Gantry** (Gamma-Ray Detection System) is a cost effective, safe, and reliable system for the inspection of trucks, vehicles and cargo containers for concealed contraband, smuggled goods, and for manifest verification. The Rapiscan GaRDS Gantry is available in two models: Enhanced Penetration and Standard.

The Rapiscan GaRDS Gantry features:

- Easy to use - requires only one operator.
- High throughput - can scan up to 60 trucks per hour.
- Scan single or multiple cargo arranged in a row, including a camera snapshot of scanned vehicle.
- The moving gantry allows the scanning of stationary vehicles, containers, air cargo and pallets.
- Optimized source to detector distance enhances penetration performance.
- Complete imaging of cars and trucks without corner cutoff of containers or cargo.
- Full image of truck or container contents.
- System moves on rails and can be relocated.
- Minimal infrastructure is easily integrated into existing facilities.
- Automated scanning operation, no manual controls needed.
- Designed for all weather conditions.
- Safe - low radiation levels.

CUSTOMER SUPPORT SERVICES

Our team is dedicated to providing a prompt, effective and personalized response that exceeds your expectations. With spare parts inventory and skilled technicians all over the world, you can be certain Rapiscan Systems will always be prepared with a solution to address your requirements. By measuring response time, parts delivery and support status, our team embraces a customer focused philosophy to ensure continual improvement in customer support, products and services.

GARDS Product Family

Rapiscan Systems offers GaRDS™ Gamma-ray systems designed to meet the full range of cargo inspection applications.

GARDS systems have an intrinsically lower radiation field when compared to equivalent X-ray systems. This provides a smaller operational area and exclusion safety zone. The GaRDS Gamma-ray technology requires less maintenance and lower cost of ownership than equivalent X-ray systems. The GaRDS product family is designed to detect hidden contraband, including weapons, explosives, weapons of mass destruction, drugs, and undeclared goods. These GaRDS systems meet applicable US and international radiation safety standards.

MOBILE SYSTEMS: The GaRDS Mobile provides the greatest operational versatility and allows scanning of stationary or moving cargo and vehicles.

GANTRY SYSTEMS: The relocatable GaRDS Gantry provides complete inspection of stationary and unmanned vehicles, cargo and palletized materials in a cost effective configuration.

PORTAL SYSTEMS: High inspection throughput is achieved with the fully automated GaRDS Portal system. The portal technology is available as a drive-through or railcar system.



ONE COMPANY - TOTAL SECURITY

CARGO AND VEHICLE INSPECTION

SPECIFICATIONS	MODEL	
	Enhanced Penetration	Standard
Source	Cobalt-60	Cesium-137
Penetration (Steel)*	180 mm (7.08 in.) guaranteed 190 mm (7.48 in.) typical	110 mm (4.33 in.) guaranteed 120 mm (4.72 in.) typical
ALL MODELS		
Wire Resolution*	5 mm (0.20 in.)	
Spatial Resolution*	11 mm (0.43 in.)	
Contrast Sensitivity*	2 % (A steel thickness of 2 mm [0.08 in.] may be imaged behind 100 mm [3.93 in.] of steel with the Enhanced Penetration Model)	
Throughput	30-60 trucks per hour	
Scan Speed	Three user selectable speeds of 0.2, 0.3, 0.4 m/s	
Power Requirements	240 V, 50 Amps 50 or 60 Hz	
Detector Array	Folded "L" shaped detector array for total truck imaging without corner cutoff.	
Tunnel Height	4.8 m (15.7 ft.)	
Tunnel Width	4.1 m (13.4 ft.)	
Target Scan Size	Typical truck size: 4.5 m (14.8 ft.) High x 3 m (9.8 ft.) Wide	
Minimum Scan Height	Lower than 355 mm (14 in.)	
Scanning Modes	Forward or Reverse scanning direction Single or Multiple vehicles or cargo 10° oblique scanning angle to enhance false wall detection	
Temperature	0-50° C Standard, -30 °C to 50 °C (-22 °F to 122 °F) with Cold Weather Kit Option	
Relative Humidity	0-98% (operates in rain and snow conditions)	

* At Optimal Scan Speed

SAFETY

Red radiation On warning light
Audible Alarm when radiation is On
Emergency Stop button (ESTOP)
Key to turn system On/Off
Fail-safe radiation source On/Off mechanism

ISO 9001:2000 Certified

With continual development of our products Rapiscan Systems reserves the right to amend specifications without notice.

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SYSTEM FEATURES	OPTIONS
Remote Operator Viewing Station	VEDS, Vehicular Explosives Detection System using Thermal Neutron Analysis to automatically detect the characteristic signatures of explosives and narcotics.
Crystal Clear™ and Quick Optimize Automatic Image Enhancement	License plate snapshot with every image
Zoom (10X), Real-time Spot Zoom™, Brightness control, Pseudo-color, Emboss	Remote Supervision Station (Wireless Networking)
Annotation, Histogram Adjustment, Log function, Square-root, Impenetrable Area Identification	Image Database
Training mode and On-line Help	Cold Weather Kit
Automatic System Calibration and Diagnostics	RTIS - Passive detection of nuclear material
Color Printing of Image	Cargo Viewer Simulator for operator training
Split window for comparing images and Full screen view, Save Area of Interest	Multi-Language Support for Operator Interface and Manuals (Check with your Rapiscan Systems representative for available languages)
Image Archiving on CD-RW, CD-R - Save Raw, BMP, JPG, TIFF formats	
CCTV Surveillance system with image capture function	

Rapiscan GaRDS Gantry with VEDS Option



distributor stamp

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