

CARGO AND VEHICLE INSPECTION

Automated Scanning

High Throughput

Small Footprint

Cost Effective



The **Rapiscan GaRDS™ Portal** is a cost effective, safe, and reliable system for the inspection of trucks and cargo containers for concealed contraband, smuggled goods, and for manifest verification. The **Rapiscan GaRDS Portal** is available in two models: Enhanced Penetration and Standard.

The **Rapiscan GaRDS Portal** features:

- Easy to use - requires only one operator.
- High throughput – drive through scanning allows inspection of up to 180 trucks per hour.
- Enhanced Penetration model provides up to 190 mm of steel penetration.
- Full imaging of cargo or container contents without corner cut-off.
- Manifest verification.
- Small footprint.
- 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.

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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	1-3 trucks per minute	
Scan Speed	2 miles per hour average (Image Aspect ratio is adjusted after data acquisition to accommodate various speeds)	
Power Requirements	120 V/60Hz, 30A (220V/50Hz optional)	
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 or Lowest Scan Point	305 mm (12 in.) above ground	
Scanning Mode	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

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

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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