

# RAPISCAN EAGLE® C02

200 Kv X-ray imaging system to quickly screen occupied vehicles.

Safe, Automated Occupied Vehicle Scanning

Offers Best-In-Class X-Ray Inspection Capability

Technology Allows Multi Direction Scanning



The Rapiscan Eagle® C02, Occupied Vehicle Inspection System is designed to scan cars and small vehicles to verify the contents and to identify the presence of hidden contraband, such as weapons, explosives and narcotics.

## Eagle® C02 Key Features



## Key

1. CCTV Camera
2. Traffic Lights
3. L.E.D Scan Tunnel Lighting
4. Weatherproof Structure
5. Scan Approach Laser
6. Electrical Maintenance Panel
7. X-Ray Collimation
8. Inspection Field Of View; 3 m (w) x 3.3 m (h) inspection tunnel, recommended scan size 2.8 m (w) x 3.0m (h) x Any Length
9. Safety Warning Lights
10. E-Stop
11. Shore Power Connection
12. Safety Warning Lights And E-Stop
13. Safety Sounder
14. Detectors Housed in Horizontal and Vertical Portal Structure
15. Control Panel Containing X-Ray Generator And Control Equipment



# RAPISCAN EAGLE® C02

## Physical Specifications

Platform Type	Car / Vehicle scanner
Platform	Drive Through Portal structure with fiberglass skin
View Direction	Side shooter
Overall Dimensions	Depth: 2.0 m, Width: 4.6 m, Height: 4.2 m
Scan Area Dimensions	Width: 3.0 m, Height: 3.3 m
Recommended Maximum Vehicle / Object Scan Size	Width: 2.8 m, Height: 3.0 m, Length: Unlimited
Minimum Scan Height	0.25 m from ground
Scan Orientation	90° to inspected object

## Operation

Set-up	10 minutes in standard operating environment
Crew	1-2 inspectors and optional ground marshal Further inspectors for increased throughput
Scan Mode	Portal drive-through scan mode only Occupied vehicle - bumper to bumper
Scan Direction	Single direction (standard) Bi-Directional (option)
Scanning Speed	3-8 km/h

## X-Ray Generator and Image Performance\*

Linac Energy	200 Kv x-ray tube
Steel Penetration	30 mm
Wire Resolution in Air	1 mm
Spatial Resolution - Horizontal	5 mm
Spatial Resolution - Vertical	5 mm
Contrast Resolution (Behind 10 mm) %	10%
Material Separation (option)	2 level - low z/high z

## Operating Environment\*

Operational Temperature (at Sea Level)	-10°C to +40°C -40°C with optional cold weather package +55°C with optional hot weather package
Relative Humidity	5 to 95% non-condensing
Maximum Baseline Wind Speed	40 km/hour

## Radiation Safety\*

Open Radiation Exclusion Zone	Length: 8 m x Width: 8 m
Radiation Dose at Exclusion Zone Boundary in One Hour	1 µSv/hour for scanning 50 vehicles
Radiation Dose to Occupants	less than 0.25 µSv
Radiation Dose to Crew in One Hour	0.5 µSv/hour
Radiation Dose to Cargo per Scan	less than 0.25 µSv
Shielding Type	Not required

- \* All tests performed according to ANSI N42.46
- \* The performance characteristics outlined in this document are indicative and for information only, the specific performance characteristics of individual systems may differ based upon customer requirements, operation and supplied options.

Should further enhanced characteristics or extended capabilities be required, please contact a Rapiscan Systems Cargo and Vehicle Inspection representative.

Superior Quality, Comprehensive Standard Features and Flexible Options - Included with Every Rapiscan Eagle Cargo and Vehicle Inspection System.

Our commitment to value and innovation make Rapiscan the first choice in cargo and vehicle inspection solutions. Rapiscan Systems is a global leader in high quality inspection solutions and advanced threat identification techniques. Security is our only concern, and we focus on developing customer-centric solutions that are future-proof and cost effective. All Rapiscan products are backed by a 24 x 7 worldwide training, maintenance and service organization.

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ISO 9001:2008 Certified