

RAPISCAN EAGLE® T10

1 MeV X-ray imaging system deployed on a trailer chassis for scanning light cargo and empty containers.

Rapid Deployment Trailer Mounted Scanner

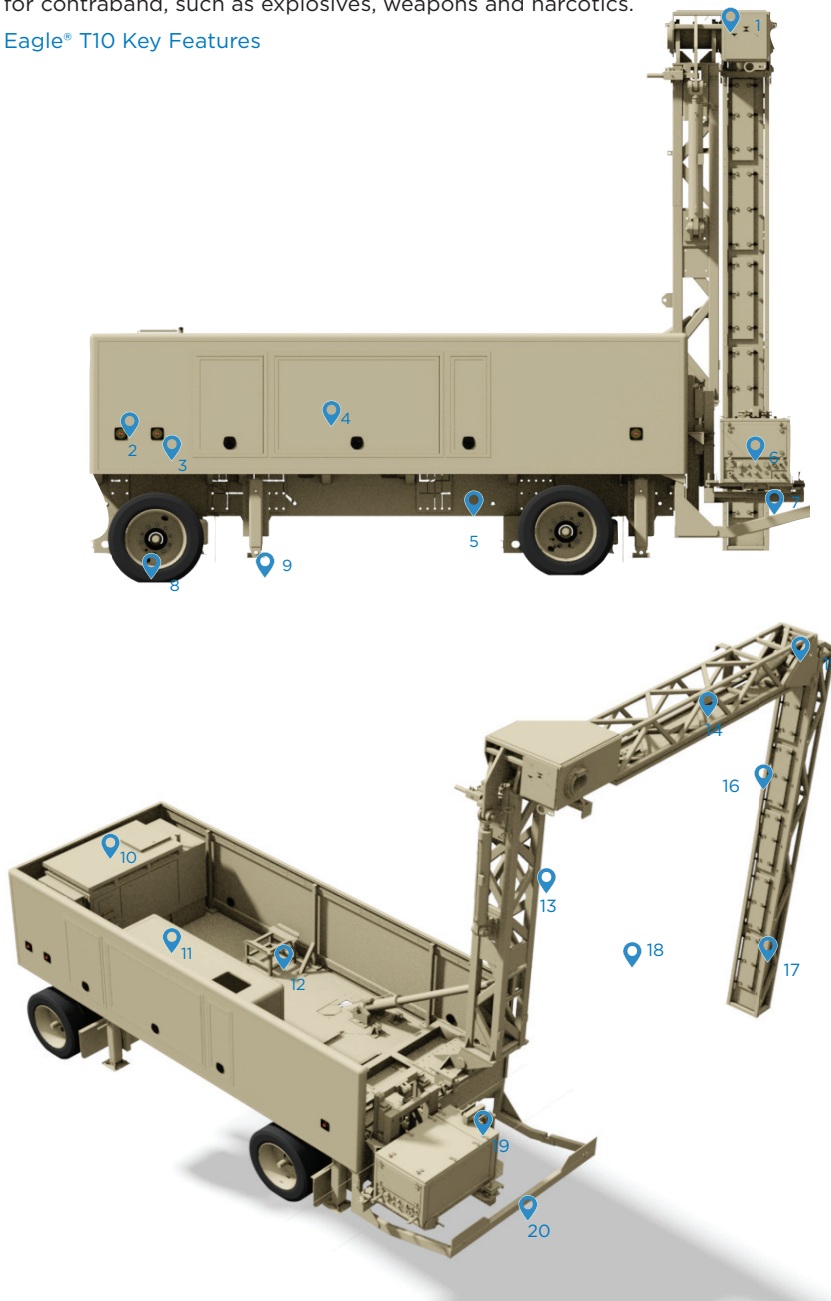
Inspect Vehicles and Cargo with 1 MeV X-Ray Imaging

High-Throughput Scanning

Available as Both Military or Commercial Specifications

The Eagle® T10 delivers X-ray imaging on a towable trailer for mobile, rapidly deployed cargo and vehicle inspection. Vehicles are scanned as they drive through the deployed boom, while the remote operator reviews the X-ray images at a safe distance. The Eagle® T10 inspects the vehicle and its cargo for contraband, such as explosives, weapons and narcotics.

Eagle® T10 Key Features



Key

1. X-ray sirens and alarm warning lights
2. E-Stops -Interlocking Safety System
3. Shore Power connector
4. Operational Access panels
5. Ruggedised Military Trailer
6. 1 MeV linac
7. Linac Cradle which stows the linac for transportation
8. T10 System Mounted on an Oshkosh Steerable Front Axle Trailer
9. Landing Legs
10. Generator - Diesel or JP8 Fuel
11. Control Equipment and Hydraulics
12. Boom Cradle for safe and secure transportation
13. Patented Lattice Boom Structure
14. Drive through Laser for safe cargo screening
15. Safety CCTV Cameras
16. Detector Array in Horizontal and Vertical Boom
17. Beam Stop and Warning Lights
18. Maximum Inspection Dimensions: 2.8m (w) x 4.6m (h) x Unlimited (L)
19. Linac Collimator and CabScan Option
20. Safety under-run

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RAPISCAN EAGLE® T10

Physical Specifications

Platform Type	Mobile Scanner on Military specification trailer
Platform	Trailer Chassis with Strongback equipment platform
View Direction	Side shooter
Overall Dimensions	Length: 7.1 m (9.1 m with hitch), Width: 2.6 m, Height: 2.6 m
Overall Dimensions	Length: 7.1 m (9.14 m with hitch), Width: 6.8 m, Height: 5.7 m
Scan Area Dimensions	Width: 3.8 m, Height: 4.7 m
Recommended Maximum Vehicle / Object Scan Size	Length: Unlimited, Width: 2.8 m, Height: 4.6 m
Minimum Scan Height	0.4 m from ground
Scan Orientation	90° to inspected object

Operation

Set-up	20 minutes in standard operating environment
Crew	1-2 inspectors and optional ground guide
Scan Modes	Portal drive-through scan mode only - start of cargo to rear bumper
Scan Direction	One direction from rear of system
CabScan™ Mode option	Front bumper to start of cargo
Scanning Speed	3-8 km/h

X-Ray Generator and Image Performance*

Linac energy	1 MeV
Steel Penetration	120 mm
Wire Resolution in Air	1 mm
Spatial Resolution - Horizontal	10 mm
Spatial Resolution - Vertical	5 mm
Contrast Resolution	5% (Behind 50 mm)
Steel Penetration (High Penetration option)	150 mm
Wire Resolution in Air (High Penetration option)	1 mm
Spatial Resolution - Horizontal (High Penetration option)	10 mm
Spatial Resolution - Vertical (High Penetration option)	5 mm
Contrast Resolution (High Penetration option)	5% (behind 50 mm)
Radiation Detection (option)	Integrated Gamma Radiation detection Integrated Gamma and Neutron Radiation detection

Operating Environment*

Operational Temperature	-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: 12 m x Width: 12 m
Radiation Dose at Exclusion Zone Boundary in One Hour	1 µSv/hour
Radiation Dose to Driver	less than 0.25 µSv per scan
Radiation Dose to Crew in One Hour	0.5 µSv/hour
Radiation Dose to Cargo per Scan	less than 5 µSv
US Safety Act Certified	Yes

* 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.

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ONE COMPANY - TOTAL SECURITY



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.

AMERICAS, CARIBBEAN

2805 Columbia Street
Torrance, California 90503
UNITED STATES OF AMERICA
Tel: +1 310-978-1457
Fax: +1 310-349-2491

EUROPE, MIDDLE EAST, AFRICA

X-Ray House
Bonehurst Road
Salfords
Surrey RH1 5GG
UNITED KINGDOM
Tel: +44 (0) 870-7774301
Fax: +44 (0) 870-7774302

ASIA

240 Macpherson Road
#07-01 Pines Industrial Building
Singapore 348574
SINGAPORE
Tel: +65-6846-3511
Fax: +65-6743-9915

EMAIL

sales@rapiscansystems.com

WEB

www.rapiscansystems.com

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Rapiscan Systems is
ISO 9001:2008 Certified

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