



The HXM-MobileScan™ is a mobile cargo scanner designed for screening fully-loaded trucks, shipping containers, and delivery vehicles. Its high-powered generator provides 320 mm of steel penetration and allows operators to quickly check and verify shipping manifests. Wireless integrated networking capabilities enable it to share and transmit images, and its automated deployment system is simple to operate.

Designed around a rugged trucking platform, MobileScan™ is a flexible security solution for ports and border crossings. Moving quickly between stationary vehicles, it can process up to 25 cargo containers every hour, making it the perfect choice for rapid and effective cargo inspections.

PRODUCT HIGHLIGHTS

User-Defined Interchange
for Integrated Networking

Enhanced Material
Discrimination

Automated Deployment
System

Real-Time Image
Manipulation

320 mm Steel
Penetration

HXM-MobileScan™

TOMORROW'S TECHNOLOGY FOR TODAY'S SECURITY™



GENERAL SPECIFICATIONS

Truck Type:	Mercedes Benz, Volvo, or Other
Tunnel Size:	4.3 m x 5.4 m
(WxH)	169.2" x 212.6"
Dimensions ¹ Stowed:	10.4 m x 2.5 m x 4 m
(LxWxH)	409.4" x 98.4" x 157.4"
Dimensions ¹ Deployed:	10.4 m x 8 m x 6 m
(LxWxH)	409.4" x 314.9" x 236.2"
Source Tire Cut-off:	15 cm Above the Ground

SCAN DRIVE

Type:	Portal or Mobile
Speed:	Portal: 8 km/hr. Mobile: 40 cm/s

X-RAY SOURCE

A 6MeV Linear Accelerator with Ultra Low-Leakage (10^{-6})	
Scans cab at:	2.5 MeV (Dose to Driver: $\leq 0.25 \mu\text{Sv}$)
Scans container at:	4 to 6 MeV (Dose to Cargo: Comply with international standards)

PERFORMANCE

Throughput:	Portal: Up to 120 trucks/hr. Mobile: 25 Standard 60' (or 18m Long) ISO Cargo Containers per Hour
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Steel Penetration:	Container: 330 mm Typical, 300 Guaranteed
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Contrast Sensitivity:	1%, Guaranteed (1 mm Plate Behind 100mm of Steel)
Wire Resolution:	1 mm Wire in Air

COMPUTER & VIDEO

Platform:	Windows® OS
Display Resolution:	4K Resolution

ENVIRONMENTAL

Operating Temperature:	-10°C to 55°C / 14°F to 131°F
Storage Temperature:	-20°C to 60°C / -4°F to 140°F
Humidity:	5% to 95% Non-Condensing

POWER REQUIREMENTS

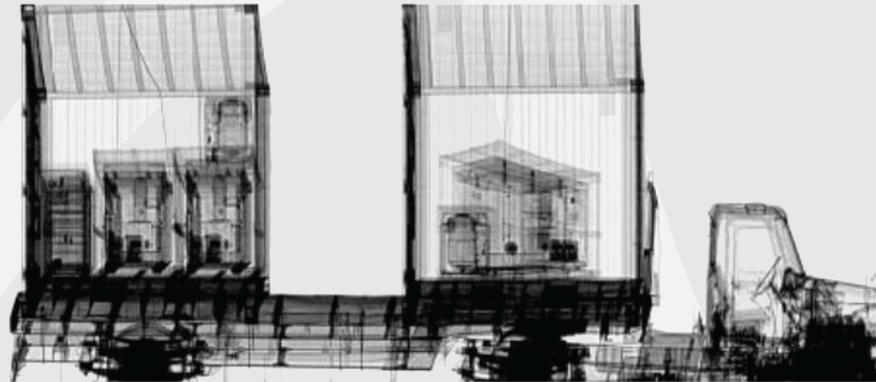
Power Generator:	
Internal	3 Phase 400V +/- 5% 48KVA 50Hz Fuel Generator, 78 Liter Capacity
External	3 Phase 400V +/- 5% 60A 50Hz

STANDARD FEATURES

Black/White Imaging	Image Annotation Material
Picture Perfect	Print Image Capable
Pseudo Color	
Reverse Monochrome	Multi-Tier Accessibility
	Network Ready
Edge Enhancement	Real-Time Self Diagnostics
Continuous Zoom Up to 64x	
	CCTV Camera System
Auto Image Archiving	Inspection Workstation
Image Review	Operator Workstation
Management System	
Manual Bitmap Archive	

OPTIONAL FEATURES³

Additional Image Analyst Workstation	Enhanced Material Discrimination
Container Plate Reader	
Custom Paint	Local Language
Environmental Kit	Higher Archiving Capacity
Inspection Office	
Operator Training	
Wireless Infrared (IR) Perimeter Fence (The Exclusion Zone is 50m x40m).	
Radiation Meter	
Remote Inspection Workstation	
Truck Plate Reader	
Portal Operation Mode	



HEALTH & SAFETY

Meets applicable international standards and regulations of health and safety including U.S. Code of Federal Regulations 21 CFR 1020. 40 for cabinet X-ray systems.

Complies with International Standards and Regulations on Health and Safety.

Safety interlocks for scan speed, boom position, source positions, doors, e-stops, wireless boundary.

Radiation dosage less than $0.5 \mu\text{Sv/hr}$ average in drivers cab, operator control room, and outside exclusion zone.

Radiation dosage to cargo less than 0.5mR ($5 \mu\text{Sv}$)

ISO 9001 

¹Weight and dimensions of the system may vary depending on customization.

²Optional Features may affect lead time, price, and weight of product.

Please contact your Astrophysics Sales Representative for more information.

Due to continued product research and development, Astrophysics Inc. reserves the right to amend all technical specifications without prior notice.

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