



The HXP-FreightScan™ is a high-energy portal designed for screening trucks and shipping containers at seaports, border crossings, and cargo centers. The portal is fully automated and can process up to 160 trucks an hour. Its precision software allows drivers to remain in their vehicles during screening and with a tunnel height of over five meters (16.7 ft.), even oversized cargo can be scanned.

The system is powered by a powerful generator capable of penetrating up to 340 mm (13.4") of steel. Its clear, high-resolution images make it easy for operators to identify threats and verify manifests, while its rugged construction ensures cost-effective operation.

The Astrophysics HXP-FreightScan™ is designed and assembled in the United States to the highest quality standards. Since 2002, Astrophysics has led the industry in research and development, creating integrated solutions to advance the critical security missions of our customers and partners.

## PRODUCT HIGHLIGHTS

340 mm Steel Penetration

High Resolution Image

Throughput: 160 Trucks  
Per Hour

Fully-Automated Drive  
Through Portal

# HXP-FreightScan Plus™

T O M O R R O W ' S   T E C H N O L O G Y   F O R   T O D A Y ' S   S E C U R I T Y™

**GENERAL SPECIFICATIONS**

Tunnel Size: (WxH)	3.8 m x 5.1 m 147.6" x 200.8"
Max Vehicle Size: (WxH)	3.5 m x 5.0 m 137.8" x 196.9"
Dimensions <sup>1</sup> : (LxWxH)	17.0 m x 10.8 m x 5.5 m 669.3" x 425.2" x 216.5"
Scanning Speed:	5 km/hour (3.1 mph) Nominal 15 km/hour (9.3 mph) Capable
Throughput <sup>2</sup> :	160 trucks/hour

**TECHNICAL**

Steel Penetration:	340 mm Typical, 320 Standard
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**X-RAY GENERATOR & IMAGE PERFORMANCE**

Energy:	4 MeV / 6 MeV
Beam Direction:	Horizontally Sideward
X-Ray Dose:	≤0.25 µSv/inspection

**COMPUTER & VIDEO**

Platform:	Windows® OS
Display Type:	Dual 28" Flat Panel Color Monitors; One 19" Color Monitor
Display Resolution:	4K Resolution

**ENVIRONMENTAL**

Operating Temperature:	-30°C to 50°C / -22°F to 122°F
Storage Temperature:	-30°C to 60°C / -22°F to 140°F
Humidity:	Up to 95% non-condensing

**ELECTRICAL**

System Power:	380 VAC, 50Hz, Three Phase 40kVA
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**HEALTH & SAFETY**

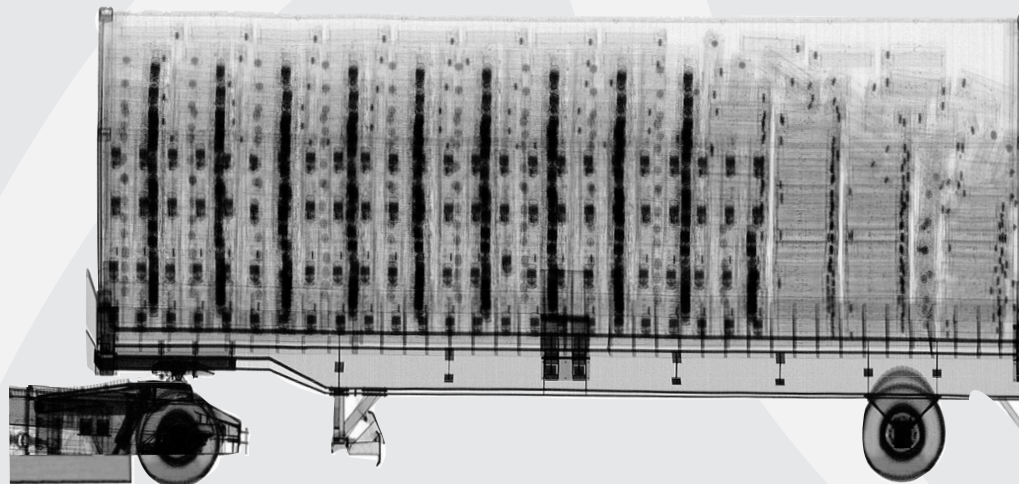
In compliance with ANSI N43.17 for screening of personnel with X-Rays. In compliance with ICRP 103, Paragraph 2 of Article 13 of EU Council Directive 96/29/EURATOM, and United States EPA public exposure limits. In compliance with United States FDA and WHO food screening limits. Typical radiation leakage is 0.003 mSv to cargo and 0.06 usv to the cab (drivers).

**STANDARD FEATURES**

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

**OPTIONAL FEATURES<sup>3</sup>**

- TotalScan™ Mode:
- Option to safely scan driver cabin and container
- Material Discrimination:
  - 1) 2 Color (Organic/Metal)
  - 2) 3 Color (Organic/Metal/High-Z)
- Radioactive Material Detector
- Higher Archiving Capacity
- Local Language
- Additional Analyst Workstations
- Container Plate Reader
- Custom Paint
- Environmental Kit
- Inspection Office
- Operator Training
- Radiation Meter
- Truck Plate Reader



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**ISO 9001 & ISO 14001: Certified**

<sup>1</sup>Weight and dimensions of the system may vary depending on customization. Weight does not include shield walls.

<sup>2</sup>Throughput is an estimated maximum vehicle count. Actual throughput will depend on system and site configuration.

<sup>3</sup>Optional features may affect lead time, price, and weight of system. 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.