ASTROPHYSICS®

HIGH VALUE PORTAL SOLUTION

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 five meters (16.4 ft.), even oversized cargo can be scanned.

The system is powered by a powerful betatron generator capable of penetrating up to 320 mm (12.6") 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 HXP-FreightScan™ supports integration with container number and license plate OCR, radiation portal monitors, weighbridges, centralized command centers, and other third-party data systems to capture all relevant information for varied end-user applications. Seamlessly-automated scan sequences and presentation help expedite screenings and maintain operational efficiency throughout the process.

Proudly manufactured in the United States to the highest quality standards, the HXP-FreightScan™ ruggedized design can withstand harsh climates found at ports of entry around the world.

PRODUCT HIGHLIGHTS

- 320 mm Steel Penetration
- High Resolution Image
- Throughput: 160 Trucks Per Hour
- Fully-Automated Drive Through Portal

MADE IN THE USA OF U.S. & IMPORTED PARTS
USA

HXP-FreightScan™

TOMORROW'S TECHNOLOGY FOR TODAY'S SECURITY™

GENERAL SPECIFICATIONS

Tunnel Size: (WxH)	3.8 m x 5.0 m 149.6" x 196.9"
Max Vehicle Size: (WxH)	3.5 m x 4.9 m 137.8" x 192.9"
Dimensions[1]: (LxWxH)	17.0 m x 10.4 m x 5.4 m 669.3" x 409.45" x 212.6"
Scanning Speed:	3.2 km/hour (1.9 mph) Nominal 12 km/hour (7 mph) Capable
Throughput[2]:	160 trucks/hour

TECHNICAL

Steel Penetration:	320 mm Typical, 300 Standard

X-RAY GENERATOR & IMAGE PERFORMANCE

Source:	Betatron
Energy:	4 MeV / 7.5 MeV
Beam Direction:	Horizontally Sideward
X-Ray Dose:	0.03 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 14kVA

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[3]

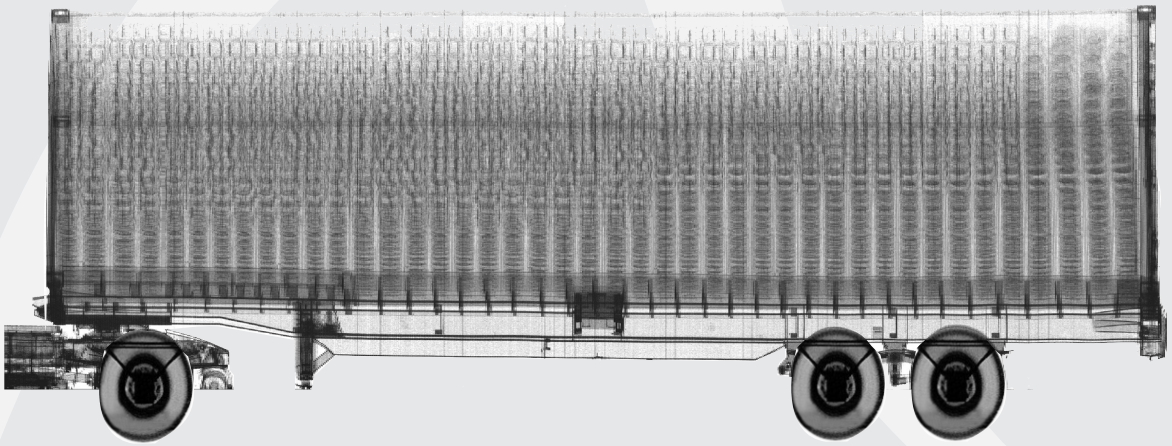
Higher Archiving Capacity
Local Language

Material Discrimination:
1) 2 Color (Organic/Metal)
2) 3 Color (Organic/Metal/High-Z)
Radioactive Material Detector

TotalScan™ Mode:
Option to safely scan driver cabin and container

Additional Analyst Workstations
Container Plate Reader
Custom Paint
Environmental Kit
Inspection Office
Operator Training
Radiation Meter
Truck Plate Reader

Third-Party Systems[4]:
Container Readers
Radiation Portal Monitors
Weighbridges
License Plate Readers
Centralized Command Center



ISO 9001 & ISO 14001: Certified

[1]*Weight and dimensions of the system may vary depending on customization. Weight does not include shield walls.*
[2]*Throughput is an estimated maximum vehicle count. Actual throughput will depend on system and site configuration.*
[3]*Optional features may affect lead time, price, and weight of system. Please contact your Astrophysics Sales Representative for more information.*
[4]*Not an exhaustive list, 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.

Astrophysics HQ
+1.909.598.5488

Astrophysics - INDIA
+91.11.41709990

Astrophysics - EMEA
+961.9.832.500/1/2

Astrophysics - ASIA
+63.2.812.0033

DCO# 2990 P/N 50-00-PB115-00 Rev. C