



# ASTROPHYSICS™

TOMORROW'S TECHNOLOGY FOR TODAY'S SECURITY



## XIS-1818

## Extended Tunnel for High Capacity Screening Pallet and Cargo Inspection



### TRANSPORTATION

Airport entrances and perimeters,  
air cargo, and checkpoint technology.



### PORTS & BORDERS

Border control, sea ports, and  
other large cargo sectors.



### CRITICAL INFRASTRUCTURE

Access control for prisons, courthouses,  
mailrooms, hotel entrances and  
military bases.

The XIS-1818 is a high capacity X-Ray Inspection System with extended tunnel dimensions 180.3 cm x 180.5 cm (71" x 71.1"). The XIS-1818 is designed for large cargo and pallet inspection at airports and seaports, but is ideal for any location where large scale security screening is required.

Featuring a heavy duty roller bed and rugged construction, the XIS-1818 can support 3000 kg (6614 lbs). The XIS-1818 consistently delivers outstanding performance and retains a high throughput value.

Matched with Astrophysics exclusive software and superior technology, the XIS-1818 is the quality system for your large scale screening needs.

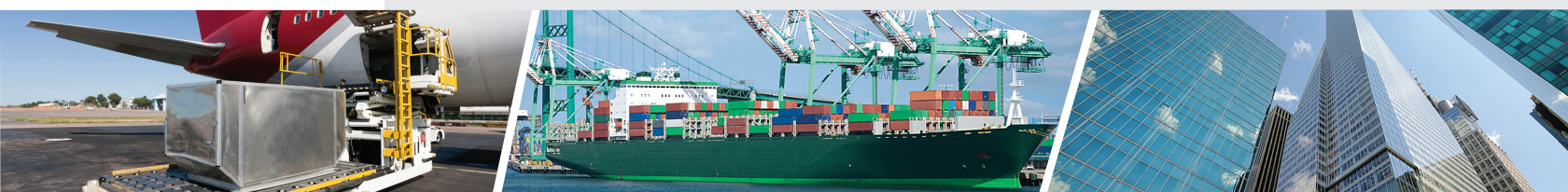
All Astrophysics X-ray Inspection Systems are equipped with Real-Time Diagnostics, a unique Astrophysics feature which allows users to monitor system health. This software was specifically engineered to save you valuable time and money. If requested, Astrophysics would also be able to connect to your system and troubleshoot any issues remotely.

An exclusive Astrophysics option is our 6 Color Imaging, which enables operators to view screened objects in 6 colors, each color correlating to a specific range of Atomic Z-Numbers. 6 Color Imaging enables operators to achieve optimal material identification which improves throughputs.

Astrophysics is committed to providing quality products and services nationwide. We listen to our customers and offer customizations and order flexibility based on their needs.

Backed by a team of engineers from our City of Industry, California center of excellence headquarters, Astrophysics designs cutting-edge X-ray screening technology for detecting weapons and contraband for transportation, ports, borders, critical infrastructure and other industries that present security risks.

Astrophysics is headquartered in the United States and maintains a global presence with service delivery worldwide. Astrophysics is committed to global safety and is proud to present this new age of screening security—driving the industry into the technology of tomorrow.





## GENERAL SPECIFICATIONS

- Tunnel Size: 180.3 cm x 180.5 cm  
(W x H) 71" x 71.1"
- Dimensions: 731.2 cm x 289.6 cm x 235.3 cm  
(L x W x H) 287.9" x 114" x 92.6"
- Shipping Dimensions:
  - 1x 325.1 cm x 143.5 cm x 254 cm  
128" x 56.5" x 100"
  - 2x 231.1 cm x 143.5 cm x 254 cm  
91" x 56.5" x 100"
  - 2x 203.2 cm x 223.5 cm x 81.3 cm  
80" x 88" x 32"
- Net Weight<sup>2</sup>: 4100 kg (9039 lbs)
- Shipping Weight<sup>2</sup>: 5300 kg (11685 lbs)
- Roller Bed Speed: 10 cm/s (20 ft or 6m/min) Forward or Reverse
- Roller Bed Height: 38.3 cm (15") from Floor
- Roller Bed Capacity: 3000 kg (6614 lbs) Evenly Distributed Load

## TECHNICAL

- Wire Resolution: 40 AWG Typical, 38 AWG Standard
- Spatial Resolution: 1.3 mm Horizontal, 1.3 mm Vertical
- Steel Penetration: 39 mm Typical, 37 mm Standard
- Contrast Sensitivity: 24 Visible Levels, 4096 Gray Level
- Film Safety: Guaranteed up to ISO 1600 (33DIN)

## X-RAY GENERATOR

- Voltage: 180kV, Operating at 165kV
- Tube Current: 1.2 mA
- Duty Cycle: 100%, No Warm-Up Procedure Required
- Beam Direction: Horizontally Sideward
- Detector: 2432 Channels in an L-Shaped Array

## COMPUTER

- Processor: Intel® Core i5, 3.1 GHz, 6MB cache
- Memory: 4 GB RAM at 1333 MHz
- Storage: 500 GB HDD
- Video Card: 1 GB, Dual Digital Display
- Platform: Windows® OS
- Backup: Uninterruptible Power Supply  
(Computer Operation - 20 Minute)

## VIDEO

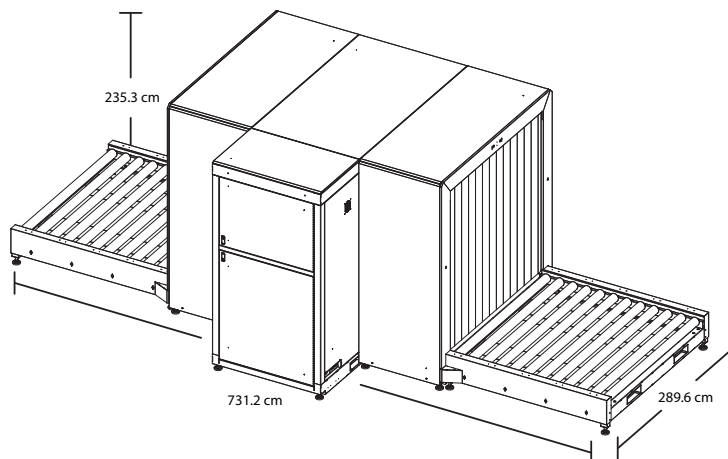
- Display Type: Dual 24" LCD Color Monitors
- Display Resolution: 1600 x 1200; 24 Bit/Pixel Color

## ENVIRONMENTAL

- Operating Temperature: 0°C - 40°C \ 32°F - 104°F
- Storage Temperature: -20°C - 60°C \ -4°F - 140°F
- Humidity: Up to 95% Non-Condensing

## ELECTRICAL

- Power Requirements: 110VAC ± 10%, 50/60Hz, 15 Amp Max  
220VAC ± 10%, 50/60Hz, 10 Amp Max



## STANDARD FEATURES

- 6 Color Imaging
- 9 Quadrant Zoom
- Atomic Z-Number Measurement
- Auto Image Archiving (150,000)
- Baggage Counter
- Color and Black/ White Imaging
- Continuous Scanning
- Continuous Zoom up to 64x
- Vertical Zoom Panning
- Geometric Image Distortion Correction
- High Penetration Function
- Heavy Duty Roller Casters
- Image Annotation
- Image Review
- Manual Bitmap Archive
- Material Discrimination
- Multi-Tier Accessibility
- Network Ready
- Organic/ Inorganic Imaging
- Operator Training
- Picture Perfect
- Print Image Capable
- Pseudo Color
- Real-Time Image Manipulation
- Real-Time Self Diagnostics
- Reverse Monochrome

## OPTIONAL FEATURES<sup>3</sup>

- Computer Based Training (CBT)
- Custom Paint
- Density Alert
- Entry/ Exit Roller Table
- Footmat Operator Interlock
- Local Language Support
- Polar Kit
- Radiation Meter
- Remote Workstation Configuration
- Screener Assist Software
- Test Case
- Threat Image Protection (TIP) Software
- Tropical Kit
- Wireless Barcode Scanning

## HEALTH AND SAFETY

- Compliant with USFDA, Center for Devices and Radiation Health Standards for Cabinet X-Ray Systems (21-CFR 1020.40)
- Typical radiation leakage is less than 0.1 mR/hr (Leakage less than 0.5 mR/hr permitted by the Federal Standard)



<sup>1</sup> As tested on Astrophysics Inc. Test Piece.

<sup>2</sup> Weight of the system may vary depending on customization.

<sup>3</sup> Optional features may affect lead time price, and weight of XIS-1818. 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.