

# XIS-1818™ 320kV

## PRODUCT HIGHLIGHTS

320kV Generator

80mm Steel Penetration

Picture Perfect Image Analysis

40 AWG Wire Resolution

Field Proven Reliability



## PRODUCT DESCRIPTION

The XIS-1818 320kV™ is a powerful X-Ray Inspection System (XIS) designed for screening cargo at airports, customs centers, transit hubs, and freight facilities. For higher throughput, its heavy roller bed conveyor is only 38 cm (15") above the floor, convenient for loading and unloading freight. Its 320kV generator provides the highest level of steel penetration and image resolution of any cargo system its size.

## ABOUT ASTROPHYSICS

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. Headquartered outside of Los Angeles, CA in the USA, Astrophysics has over 45,000 systems deployed in more than 180 countries, safeguarding critical infrastructure, aviation, and ports and border sites worldwide.

# XIS-1818<sup>TM</sup> 320kV

## GENERAL SPECIFICATIONS

|                                     |                                                           |
|-------------------------------------|-----------------------------------------------------------|
| Tunnel Size:                        | 181.1 cm x 180.7 cm<br>(WxH) 71.3" x 71.1"                |
| Dimensions: <sup>2</sup><br>(LxWxH) | 949.6 cm x 310.3 cm x 240.0 cm<br>373.8" x 122.2" x 94.5" |
| Net Weight: <sup>2</sup>            | 12000 kg (26400 lbs)                                      |
| Shipping Weight: <sup>2</sup>       | 16135 kg (35570 lbs)                                      |
| Conveyor Speed:                     | 20 cm/s (39 ft or 12m/min)<br>Forward or Reverse          |
| Conveyor Height:                    | 34.3 cm (13.5") from Floor                                |
| Conveyor Capacity:                  | 3000 kg (6614 lbs) Evenly Distributed Load                |

## X-RAY GENERATOR & IMAGE PERFORMANCE

|                                 |                                             |
|---------------------------------|---------------------------------------------|
| Voltage:                        | 320kV                                       |
| Tube Current:                   | 7.0 mA                                      |
| Wire Resolution: <sup>2</sup>   | 40 AWG Typical, 38 AWG Standard             |
| Steel Penetration: <sup>1</sup> | 80 mm Typical, 75 mm Standard               |
| Cooling:                        | Sealed Di-Electric Oil Bath with Forced Air |
| Duty Cycle:                     | 100%, No Warm-Up Procedure Required         |
| Beam Direction:                 | Horizontally Sideward                       |

## COMPUTER & VIDEO

|                     |                              |
|---------------------|------------------------------|
| Platform:           | Windows® OS                  |
| Display Type:       | Dual 24" Flat Panel Monitors |
| Display Resolution: | 1920 x 1200                  |
| Memory:             | 8 GB RAM                     |
| Storage Capacity:   | 256 GB SSD                   |

## 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

|                    |                                                            |
|--------------------|------------------------------------------------------------|
| System Power:      | 220VAC +/- 10%, 50/60Hz, 100 Amp Min.                      |
| Power Conditioner: | Uninterruptible Power Supply (UPS)<br>(Computer Operation) |

## HEALTH & 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)

## ISO 9001 & ISO 14001 CERTIFIED



<sup>1</sup>Weight and dimensions of the system may vary depending on customization.

<sup>2</sup>As tested on Astrophysics Inc. Test Piece.

<sup>3</sup>Optional Features may affect lead time, price, and weight of product. Please contact your Astrophysics Sales Representative for more information.

Due to continued product development, Astrophysics Inc. reserves the right to amend all technical specifications without prior notice.  
Contact [sales@astrophysicsinc.com](mailto:sales@astrophysicsinc.com) for the most updated brochures.

## FEATURES

### STANDARD

3 & 6 Color Imaging  
Black & White Imaging  
High Penetration Function  
Organic/Inorganic Imaging  
Picture Perfect  
Pseudo Color  
Reverse Monochrome

Atomic Z-Number Measurement  
Geometric Image Distortion Correction  
Material Discrimination  
Real-Time Image Manipulation

Auto Image Archiving  
Image Review  
Save Image (RGB)

Baggage Counter

Image Annotation  
JPEG Conversion  
Print Image Capable

Multi-Tier Accessibility  
Network Ready  
Real-Time Self Diagnostics

9 Quadrant Zoom  
Continuous Scanning  
Continuous Zoom Up to 64x

### OPTIONAL

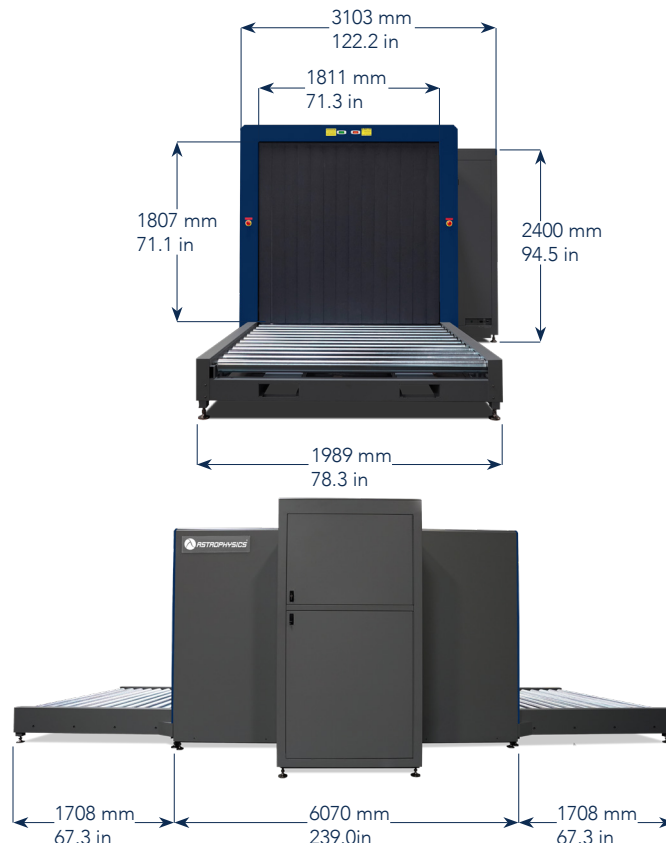
Barcode Scanning  
Density Alert  
Local Language  
Safe Passage® Computer Based Training  
Screener Assist Software  
Test Case  
Threat Image Protection (TIP) Software

Conveyor Capacity Load Increase  
External USB Ports  
Variable Conveyor Speed

Custom Paint  
Entry/Exit Roller Tables  
Environmental Kit

Radiation Meter

Footmat Operator Interlock



CARGO

DCOH3728 P/N 50-00-PB24-00 Rev. F

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