



Astrophysics Inc. is a leading designer, developer and manufacturer of x-ray inspection equipment for baggage, cargo and person screening in security applications.

The XIS-1517 X-ray System is the ideal solution for screening cargo pallets and LD containers for airports. The tunnel opening of 150 cm (59.1") wide by 170 cm (66.9") high is designed to admit all cargo pallets and most LD containers, allowing the XIS to inspect them with high-resolution imaging.

PC-Based System

The XIS-1517 X-ray System is a PC-based system, which runs on Windows XP Professional. The XIS combines the latest software and hardware technologies to provide superior image clarity, resolution and processing power.

Networking

The XIS-1517 X-ray System is designed to network with other inspection systems using high-speed ethernet TCP/IP data communication. Images from any XIS model can be sent through the network to a central server where they can be viewed, stored, and printed.

Standard Features

- Automatic Image Archiving - up to 50,000 images
- Automatic Z-number Measurement
- Baggage Counter
- Color and Black and White Imaging
- Density Alert
- Edge-Enhancement Imaging
- Forward & Backward Conveyor Movement
- Geometric Image Distortion Correction
- High Penetration Function
- Horizontal and Vertical Imaging
- Image Annotation
- Image Review - for up to last 100 images
- Manual Archiving of Images in Bitmap Format
- Manual Archiving of Suspect Images
- Organic & Inorganic Imaging
- Picture Perfect - for improved resolution / penetration
- Print Image
- Programmable Penetration / Contrast Levels
- Pseudocolor and Reverse Monochrome
- Real Time Image Manipulation
- Two 24 Inch LCD Color Monitors
- User-Defined Access to Image Archive
- User-Selectable Zoom-In 2X to 32X

X-Ray Generator

Voltage	180 KV - operating at 170 kv
Tube Current	1.0mA
Cooling	Sealed Oil Bath
Duty Cycle	100%
Beam Direction	Horizontally Sideward

X-Ray Detector

2304 Channels in an 'L' Shaped Array

Environmental Conditions

Operating Temperature	0 to 50 C / 32 to 122 F deg
Storage Temperature	-20 to 60 C / -4 to 140 F deg
Humidity	up to 95% non-condensing

Health & Safety

Complies with published international standards including the U.S.F.D.A., Center for Devices and Radiation Health performance standards for cabinet X-Ray systems (Federal Standard 21-CFR 1020.40). Typical leakage radiation is less than 0.1mR/hr, compared with maximum leakage at 0.5mR/hr permitted by the Federal Standard. Film safety guaranteed for high speed films up to ISO 1600.

Operational Standards

Complies with published international standards including the U.S. Federal Aviation Administration Standards "Use of X-Ray Systems" (Federal Standards 14 CFR 108.17 and 14 CFR 129.26).

ISO 9001: 2000

Astrophysics Inc is an ISO 9001:2000 certified organization.

Design Policy

Astrophysics Inc. pursues continuous product development and improvement. Astrophysics Inc. reserves the right to make changes in specifications without notice.

Technical Specifications

Sensitivity	38 Gauge Wire Typical / 36 Guaranteed
Spatial Resolution	1.5 mm both Horizontal and Vertical
Penetration	37 mm Steel Typical / 35 mm Guaranteed
Contrast Sensitivity	24 Visible Levels, 8192 Gray Level
Power Requirements	110 ~ 120 VAC, 15 Amps Max. 220 ~ 240 VAC, 10 Amps Max.

Physical Specifications

Net Weight	Approx. 2725 Kg (6000 lbs)
Gross Weight	Approx. 3055 Kg (6735 lbs)
Tunnel Opening	1500 mm (59.1 in) x 1700 mm (66.9 in)
Conveyor Speed	6.0 m/min.(42 fps)
Conveyor Height	300 mm (12.0 in)
Conveyor Capacity	1000 Kg Distributed Load (2205 lbs)
Dimensions	4780 mm x 2762 mm x 2197 mm 188 in. x 109 in. x 86.5 in.

Computer Specifications

At a minimum: Core II Duo 2.4 GHz, 1 GB RAM, 80GB HDD, 256MB VGA, UPS to support PC and electronics.

Video Display

Dual 24 in. high resolution, low radiation, ergonomic, LCD color monitor. Display resolution: 1600 x 1200; 24 bit/pixel color representation.

Optional Accessories and Features

- Advanced Continuous Diagnostics
- Advance Image Archiving - Based on additional hard drive space
- Increased Entry/Exit Conveyor Length to 1.5 and 2.0 meter
- Increased Conveyor Capacity (Up to 3500 Kg)
- Localized Language Capability
- Network Supervisor Station
- Operator Training Program (OTP)
- Remote Operator Workstation
- Screener Assist Threat Detection
- Search / Suspect Station
- 320 kv X-ray Generator
- 450 kv X-ray Generator

Dimensions in inches [millimeters]

