ASTROPHYSICS™

TOMORROW'S TECHNOLOGY FOR TODAY'S SECURITY

XIS-100XD

Low Conveyor for Heavy Object Screening

Large Baggage and Parcel 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-100XD is a redesigned 100X with a tunnel size of 100.0 cm x 100.0 cm (39.4" x 39.4"). With a repositioned 180kV generator, the XIS-100XD has a low conveyor height of just 30.0 cm (12.0"), enabling heavy objects to be easily loaded on and off the conveyor.

Due to its easy loading design, the XIS-100XD has been placed at airports, courthouses, customs facilities and hotels, but is ideal for all heavy parcel inspection.

The XIS-100XD is the epitome of technological innovation for its increased convenience and efficiency. The XIS-100XD offers optimized technology, large tunnel dimensions and minimum inspection time.

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.

ASTROPHYSICS™

XIS-100XD

GENERAL SPECIFICATIONS

• Tunnel Opening: (W x H)	100.0 cm x 100.0 cm 39.4" x 39.4"
• Dimensions[2]: (L x W x H)	236.7 cm x 127.5 cm x 190.9 cm 93.2" x 50.2" x 75.2"
• Shipping Dimensions[2]: (L x W x H)	191.0 cm x 147.3 cm x 224.0 cm 75.0" x 58.0" x 88.0"
• Net Weight[2]:	850 kg (1874 lbs)
• Shipping Weight[2]:	1080 kg (2380 lbs)
• Conveyor Speed:	23 cm/s (45 ft/min) Forward or Reverse
• Conveyor Height:	30.0 cm (12.0") from Floor
• Conveyor Capacity:	200 kg (440 lbs) Evenly Distributed Load

TECHNICAL

• Wire Resolution:	40 AWG Typical, 38 AWG Standard
• Spatial Resolution:	1.6 mm Horizontal, 1.6 mm Vertical
• Steel Penetration[1]:	37 mm Typical, 35 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
• Cooling:	Sealed Di-Electric Oil Bath with Forced Air
• Duty Cycle:	100%, No Warm-Up Procedure Required
• Beam Direction:	Vertically Downward
• Detector:	2304 Channels in an L-Shaped Array

COMPUTER

• Processor:	Intel® Core i5
• Memory:	4 GB RAM
• Storage:	500 GB HDD, 120 GB SSD
• Video Card:	1 GB Video Card
• 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

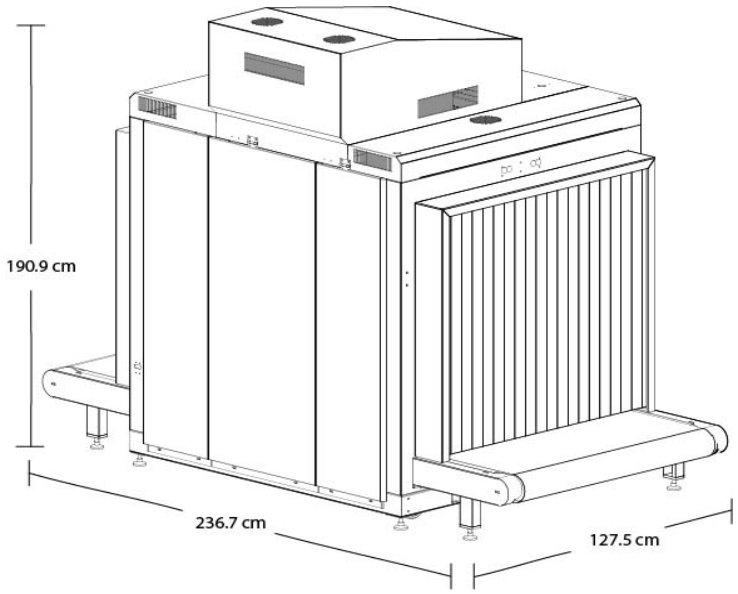
• Operating Temperature:	0°C - 40°C \ 32°F - 104°F
• Storage Temperature:	-20°C - 60°C \ -4°F - 140°F
• Humidity:	Up to 95% Non-Condensing

ELECTRICAL

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

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)



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
- JPEG Conversion
- Material Discrimination
- Multi-Tier Accessibility
- Network Ready
- Organic/ Inorganic Imaging
- Operator Training Program (OTP)
- Picture Perfect
- Print Image Capable
- Pseudo Color
- Real-Time Image Manipulation
- Real-Time Self Diagnostics
- Reverse Monochrome
- Save Image (RGB)

OPTIONAL FEATURES[3]

- Custom Paint
- Density Alert
- Entry/ Exit Roller Tables (50 cm Increments)
- Footmat Operator Interlock
- Image Analysis Program (IAP)
- Image Analysis Program - LITE (IAP - LITE)
- Larger Heavy Duty Casters
- 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

[1] As tested on Astrophysics Inc. Test Piece.
[2] Weight and dimensions of the system may vary depending on customization.
[3] Optional features may affect lead time price, and weight of XIS-100XD. 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.

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