



# ASTROPHYSICS™

TOMORROW'S TECHNOLOGY FOR TODAY'S SECURITY



## XIS-7555R

## Ruggedized Security System

### Checkpoint Security: 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 new XIS-7555R is Astrophysics' exclusive ruggedized, self-contained system. Designed and tested specially for outdoor use, there is no other system like it. The frame is completely made of stainless steel, powder coated with a special anti-corrosion formula and bulb-sealed to be water-resistant, making the XIS-7555R deployable anywhere. It is an ideal security screening solution for maritime environments, deserts, and other harsh outdoor conditions.

With a tunnel size of 75.6 cm x 55.2 cm (29.8" x 21.8"), the XIS-7555R is designed to provide maximum object screening with a minimized system profile. The XIS-7555R features a standard 180kV generator for heightened penetration and enhanced object recognition.

The XIS-7555R is transportable and equipped with shock absorbing pads to endure rough surfaces. It has been tested in our lab for extreme temperatures and situations. From sandstorms to torrential storms, the XIS-7555R is engineered to last and provide screening under the most rigid extremes.

All Astrophysics X-ray Inspection Systems are equipped with Real-Time Diagnostics, a unique Astrophysics feature which allows X-ray operators to monitor system health. This feature

was designed to reduce downtime by allowing a quick diagnosis display on the monitor. Astrophysics can 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 serves to improve throughputs

Our customers are of utmost important to us and we often exceed customer expectations, especially when customization is required. Astrophysics is committed to providing quality products and services worldwide.

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 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: 75.6 cm x 55.2 cm  
(W x H) 29.8" x 21.8"
- Dimensions<sup>2</sup>: 189.7 cm x 106.3 cm x 164.3 cm  
(L x W x H) 74.7" x 41.9" x 64.7"
- Shipping Dimensions<sup>2</sup>: 208.3 cm x 114.3 cm x 203.2 cm  
(L x W x H) 82.0" x 45.0" x 80.0"
- Net Weight<sup>2</sup>: 810 kg (1780 lbs)
- Shipping Weight<sup>2</sup>: 995 kg (2190 lbs)
- Conveyor Speed: 23 cm/s (45 ft/min) Forward or Reverse
- Conveyor Height: 82.5 cm (32.5") from Floor
- Conveyor Capacity: 165 kg (360 lbs) Evenly Distributed Load

## TECHNICAL

- Wire Resolution: 40 AWG Typical, 38 AWG Standard
- Spatial Resolution: 1.0 mm Horizontal, 1.0 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
- Cooling: Sealed Di-Electric Oil Bath with Forced Air
- Duty Cycle: 100%, No Warm-Up Procedure Required
- Beam Direction: Diagonally Upward
- Detector: 1536 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 min)

## VIDEO

- Display Type: Single 19" LCD Color Sunlight Readable Monitor
- Display Resolution: 1280 x 1024; 24 bit/pixel Color

## ENVIRONMENTAL

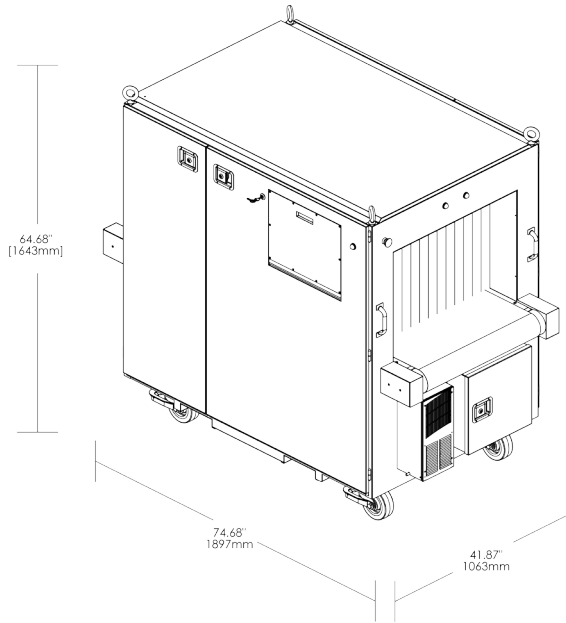
- Operating Temperature: -17°C - 49°C \ 0°F - 120°F
- Storage Temperature: -37°C - 100°C \ -35°F - 149°F
- Humidity: Up To 95% Non-Condensing

## ELECTRICAL

- Power Requirements: 110VAC ±10%, 50/60Hz, 20 Amp Max  
220VAC ±10%, 50/60Hz, 15 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
- Aluminum Spring Loaded Casters
- Image Annotation
- Image Review
- IP52 In Operation
- Material Discrimination
- Multi-Tier Accessibility
- 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<sup>3</sup>

- Custom Paint
- Density Alert
- Entry / Exit Roller Tables (50 cm Increments)
- Footmat Operator Interlock
- Image Analysis Program (IAP)
- Image Analysis Program - LITE (IAP - LITE)
- Local Language Support
- Radiation Meter
- Screener Assist Software
- Test Case
- Threat Image Projection (TIP) Software



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

<sup>2</sup>Weight and dimensions of the System may vary depending on customization.

<sup>3</sup>Optional Accessories may affect lead time, price, and weight of XIS-7555R. 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.