

# MS-53MD<sup>™</sup>

## PRODUCT HIGHLIGHTS

Artificial Intelligence (AI) Capable

160kV Downshooter Generator

22" Configurable LCD Monitor

Enhanced Imaging<sup>™</sup>

8-Color Imaging



## PRODUCT DESCRIPTION

The MS-53MD<sup>™</sup> is an X-Ray Inspection System (XIS) designed to combat threats to Critical Infrastructure. Outfitted with a mobility kit, this lightweight system is easy to transport and can be redeployed in minutes. Steel handles allow it to be carried and maneuvered through tight spaces, making it possible to screen bags and packages in almost any location.

## 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.

# MS-53MD™

## GENERAL SPECIFICATIONS

Packaging Dimensions: (LxWxH)	157.5 cm x 99.0 cm x 160.0 cm 62.0" x 39.0" x 63.0"
Tunnel Size: (WxH)	52.6 cm x 34.6 cm 20.7" x 13.6"
Dimensions (Deployed): <sup>1</sup> (LxWxH)	220.5 cm x 144.6 cm x 144.4 cm 86.8" x 56.9" x 56.9"
Dimensions (Folded): <sup>1</sup> (LxWxH)	137.9 cm x 87.9 cm x 144.4 cm 54.3" x 34.6" x 56.9"
Net Weight: <sup>1*</sup>	240 kg (529 lbs)
Shipping Weight: <sup>1</sup>	365 kg (804 lbs)
Conveyor Speed:	23 cm/s (45 ft/min) Forward or Reverse
Conveyor Height:	73.4 cm (28.9") from Floor
Conveyor Capacity:	45 kg (100 lbs) Evenly Distributed Load

## X-RAY GENERATOR & IMAGE PERFORMANCE

Voltage:	160kV, Operating at 150kV
Tube Current:	0.7 mA
Wire Resolution: <sup>2</sup>	40 AWG Typical, 38 AWG Standard
Steel Penetration: <sup>2</sup>	39 mm Typical, 37 mm Standard
Cooling:	Sealed Di-Electric Oil Bath with Forced Air
Duty Cycle:	100%, No Warm-Up Procedure Required
Beam Direction:	Diagonally Downwards

## COMPUTER & VIDEO

Platform:	Windows® 10 OS
Memory:	8 GB RAM
Storage Capacity:	256 GB SSD
Display Type:	22" LCD Touch Screen Monitor
Display Resolution:	1920 x 1080; 24 Bit/Pixel Color

## ENVIRONMENTAL

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

## ELECTRICAL

System Power:	110 VAC +/- 10% 50/60Hz, 15 Amp Max 220VAC +/- 10% 50/60Hz, 10 Amp Max
Power Conditioner:	Automatic Voltage Regulator (AVR), 600VA

## 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 U.S. Federal Standards)

## ISO 9001 & ISO 14001 CERTIFIED



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

<sup>\*</sup>Without cabinet, keyboard, monitor, and other accessories.

<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

Black & White Imaging  
Enhanced Imaging™  
High Penetration Function  
Organic/Inorganic Imaging  
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  
Rotating Screen

JPEG Conversion  
Multi-Tier Accessibility  
Print Image Capable  
Real-Time Self Diagnostics

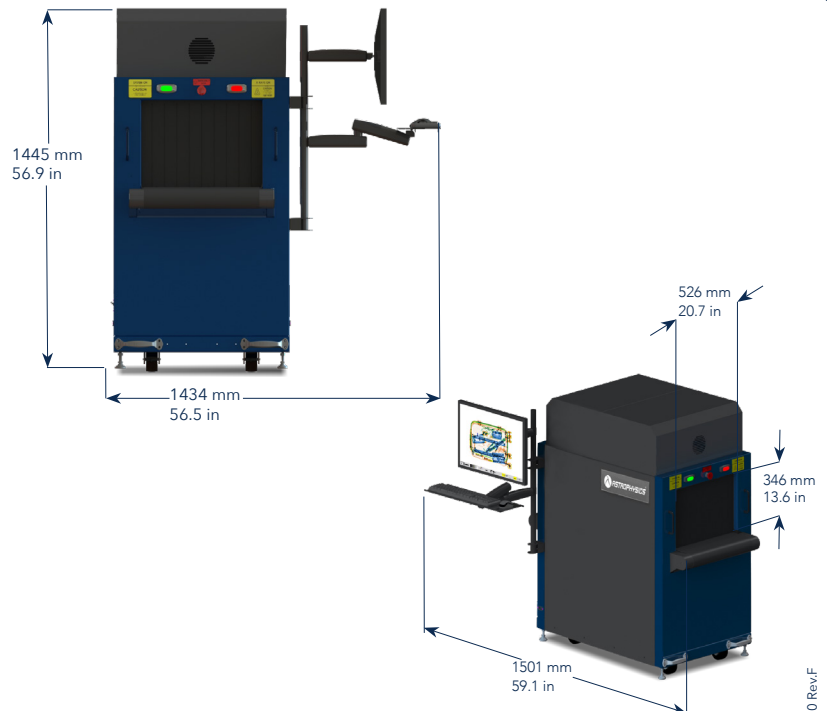
9 Quadrant Zoom  
Continuous Scanning  
Continuous Zoom Up to 64x  
Vertical Zoom Panning

### OPTIONAL

8-Color Imaging  
Artificial Intelligence (AI)  
Density Alert  
Integrated AI Detection  
Local Language  
Network Ready  
Safe Passage® Computer Based Training  
Screener Assist Software  
Test Case  
Threat Image Projection (TIP) Software

Custom Paint  
Detachable Entry/Exit Roller Tables  
Environmental Kit  
Footmat Operator Interlock  
Mobility Kit  
Uninterruptible Power Supply (UPS)

Conveyor Capacity Load Increase  
External USB Ports  
Variable Conveyor Speed  
Built-in Roller Tables



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MAIL & SMALL PARCEL

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