

MS-53MD™



PRODUCT HIGHLIGHTS

Artificial Intelligence (AI) Capable

160kV Downshooter Generator

22" Configurable LCD Monitor

Enhanced Imaging™

8-Color Imaging



PRODUCT DESCRIPTION

The MS-53MD™ 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:	157.5 cm x 99.0 cm x 160.0 cm (LxWxH)
Tunnel Size:	52.6 cm x 34.6 cm (WxH)
Dimensions (Deployed): ¹ (LxWxH)	220.5 cm x 144.6 cm x 144.4 cm 86.8" x 56.9" x 56.9"
Dimensions (Folded): ¹ (LxWxH)	137.9 cm x 87.9 cm x 144.4 cm 54.3" x 34.6" x 56.9"
Net Weight: ^{1*}	240 kg (529 lbs)
Shipping Weight: ¹	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: ²	40 AWG Typical, 38 AWG Standard
Steel Penetration: ²	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® 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



¹Weight and dimensions of the system may vary depending on customization.

*Without cabinet, keyboard, monitor, and other accessories.

²As tested on Astrophysics Inc. Test Piece.

³Optional 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 for the most updated brochures.

FEATURES

STANDARD

Black & White Imaging
Enhanced Imaging™
High Penetration Function
Hold to Preview Imaging Functions
Inverse Color
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

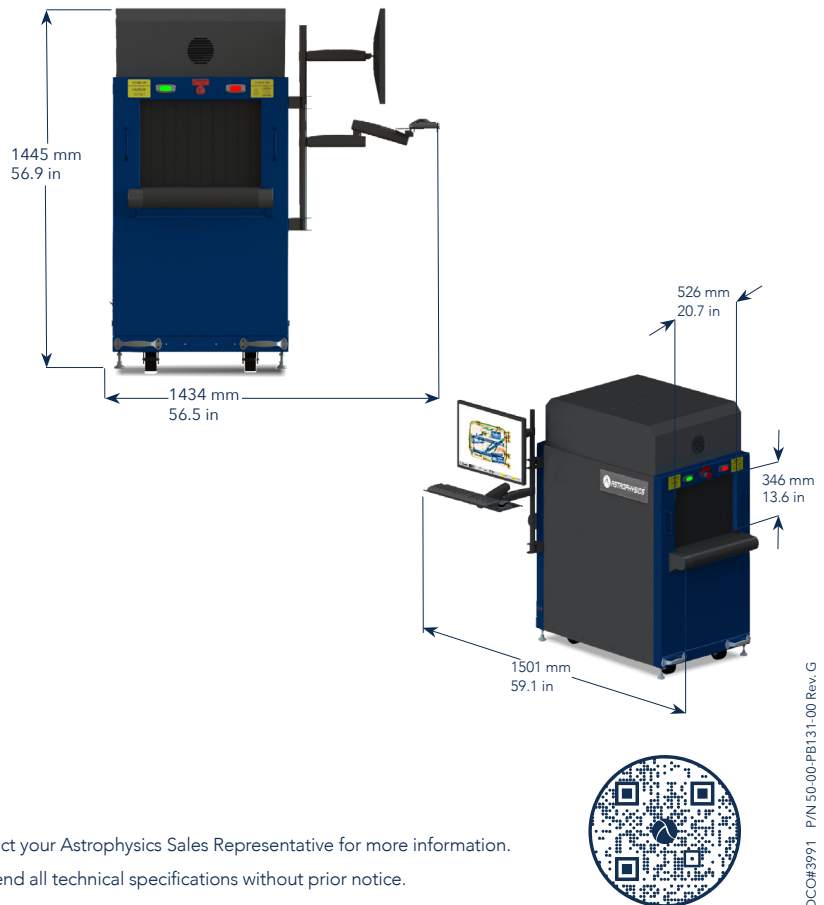
9 Quadrant Zoom
Continuous Scanning
Continuous Zoom Up to 64x
Vertical Zoom Panning

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



DCO#3991 P/N 50-00-PB131-00 Rev. G

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