peo DETECTION

ASTROPHYSICS®

Designed & Assembled In The USA

MULTI-VIEW CT™

PRODUCT HIGHLIGHTS

360° Multi-View X-Ray Imaging

360° 3D CT Imaging

2x the Penetration of a Conventional Cargo System

4x the Speed of a Conventional Cargo System

Ultimate Image Quality

THE ASTROPHYSICS MULTI-VIEW CT™ IS THE **WORLD'S FIRST 3D CT CARGO SYSTEM**

The Multi-View CT is a disruptive technology and a significant advance in cargo inspection and security screening. Combining radiography and computed tomography, it allows freight forwarders, airlines, and government agencies to perform rapid and effective cargo inspections, for the ultimate in imaging detection.

450kV Generator: The Multi-View CT is equipped with a 450kV generator capable of penetrating more than 100 mm of steel, 2x a conventional cargo system.

Multiple-View Mode: A single pass through the Multi-View CT produces 7 x-ray images, each from a different and distinct angle. Scanning only 1 pass (7 images) can process up to 60 pallets per hour, 4x a conventional cargo system. Multiple passes can produce up to 35 images, for a 360° inspection.

Computed Tomography (CT) Mode: To inspect complex, cluttered, and even non-homogeneous cargo, the Multi-View CT can combine data from up to 5 multi-view passes to construct a 3D CT image. Operators can rotate the image on screen, for a full 360° view. CT screening can process up to 20 pallets per hour.

Unparalleled Image Quality: The singular combination of radiography and tomography offers an unprecedented level of detail and resolution. The clarity of the images allows operators to identify threats anywhere on the pallet with almost perfect precision and accuracy.

TOMORROW'S TECHNOLOGY FOR TODAY'S SECURITY™

sales@astrophysicsinc.com | www.astrophysicsinc.com

PEO B.V.
info@gotopeo.com
www.gotopeo.com

The Netherlands
Havenweg 16, 6603 AS Wijchen
+31 (0)24 648 86 88

Belgium
Watermolenstraat 2, B-2910 Essen
+32 (0)3 309 32 09

CoC 34107894
VAT NL807859151B01

IBAN NL29 RABO 0356 1960 46
BIC RABONL2U

Technical Data MVCT™

GENERAL SPECIFICATIONS

Tunnel Size: (WxH)	152.4 cm x 170.2 cm 60" x 67"
Dimensions:[2] (LxWxH)	1331 cm x 453 cm x 296 cm 524" x 178" x 116.5"
Net Weight:[2]	32,500 kg Estimated (71,650 lbs)
Max Cargo Dimensions: (LxWxH)	121.9 cm x 121.9 cm x 165.1 cm 48" x 48" x 65"
Roller Bed Capacity:	1600kg (3527lbs) Pallet
Roller Bed Speed:	0.2 m/s (0.66 ft/s)
Scan Duration (1 pass):	25 Seconds
Scan Duration (5 passes):	180 Seconds
Throughput (1 pass):	Typical 60 Pallets/Hour
Throughput (5 passes):	Typical 20 Pallets/Hour

TECHNICAL

Steel Penetration:[1]	Minimum 90 mm (Astrophysics Step Wedge) 92 mm (ANSI N42.46-2008)
Contrast Sensitivity	2% at 50 mm Steel
Views per Pass	7
Rotations per Pass	45.85°

RADIOGRAPHIC

Wire Resolution:	28 AWG Typical, 24 AWG Standard
Spatial Resolution:	2 mm Slots on a 4 mm Pitch
Passes:	5
Views:	35
Rotational Image:	225°

TOMOGRAPHIC

Voxel Resolution:	3 mm^3
Rotational Image:	360°

GENERATOR

Voltage:	450kV
Current, Power:	4.0 mA, 1.8kW
Cooling:	Oil Cooling Chiller & Pump
Beam Direction:	Horizontal Side Shooter, Split into Angled Fan Beams
Detectors:	7 x 2432 Channels in L-Shaped Arrays L-Shaped Array

ENVIRONMENTAL

Operating Temperature:	0°C to 45°C / 32F to 113F
Humidity:	Up to 95% Non-Condensing

ELECTRICAL

System Power:	60A, 200-240VAC, 3 Phase

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 0.2 mR/hr
(Leakage less than 0.5 mR/hr permitted by U.S. Federal Standards)

STANDARD FEATURES

Control Pedestal
Inspection Workstation
Search Workstation
Astrophysics Management Systems

RADIOGRAPHIC FEATURES

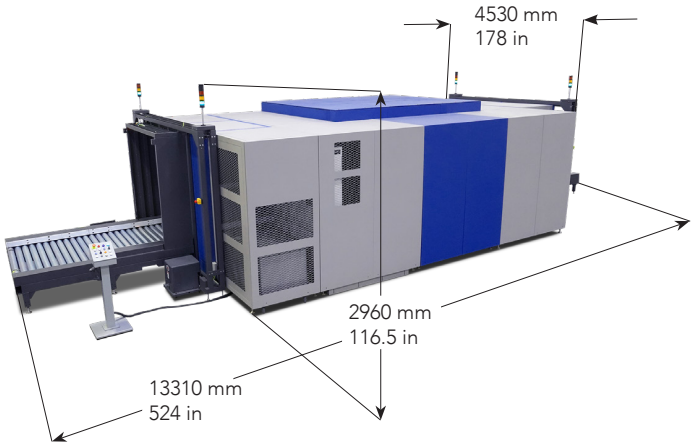
Zoom
Cycle Next/Previous View
Color
Organic/Inorganic Imaging
Black & White Imaging
Reverse Monochrome
Picture Perfect
Lighter/Darker
Real-Time Diagnostics

TOMOGRAPHIC FEATURES

Full 360° Image Rotation
Variable Density Imaging
Variable Atomic Number Imaging
Scrollable Slice Images (X, Y, Z axis)
Density Alert
Slice Views on the Coronal, Axial & Sagittal Planes

OPTIONAL FEATURES[3]

Barcode or RFID Readers
Additional Operating Modes
Networking
Multiplexing



ISO 9001: Certified

[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 product. 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.

Astrophysics HQ
+1.909.598.5488

Astrophysics - DC
+1.202.350.9740

Astrophysics - HOUSTON
+1.713.357.5132

Astrophysics - EMEA
+961.9.832.500/1/2

Astrophysics - INDIA
+91.11.41709990

Astrophysics - ASIA
+63.2.812.0033

sales@astrophysicsinc.com | www.astrophysicsinc.com

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