



THE FIRST 3D CT CARGO SYSTEM

The Multi-View CT[™] (MVCT)'s powerful design combines multi-view x-ray, high-speed CT and a powerful generator to create 3D reconstructions of complex cargo skids. The MVCT[™] screens cargo with 2X the power and 6X the resolution of conventional cargo systems, providing 360° views of cargo for analysts to screen and slice for maximum inspection capability. This scanner brings the same security scrutiny of checkpoint inspection to air cargo, allowing freight forwarders to meet security demands without needing to breakbulk.

450KV GENERATOR:

The Multi-View CT[™] is equipped with a 450kV generator capable of penetrating up to 90 mm of steel, 2x a conventional cargo system.

X-RAY 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 in just 180 seconds, for a 225° 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.





GENERAL SPECIFICATIONS

Tunnel Size: (WxH) Dimensions:² (LxWxH) Net Weight:² Max Cargo Dimensions: (LxWxH) Roller Bed Capacity: Roller Bed Speed: Scan Duration (1 pass): Scan Duration (5 passes): Throughput (1 pass): Throughput (5 passes):

167.6 cm x 170.2 cm 66.0" x 67.0" 1331.1 cm x 453.1 cm x 296.0 cm 524.0" x 178.4" x 116.5" 32,500 kg Estimated (71,650 lbs) 121.9 cm x 121.9 cm x 165.1 cm 48.0" × 48.0" × 65.0" 1600kg (3527lbs) Pallet 0.2 m/s (0.66 ft/s) 24 Seconds 180 Seconds Typical 60 Pallets/Hour Typical 20 Pallets/Hour

STANDARD FEATURES

Systems

Astrophysics Management Control Pedestal Inspection Workstation Search Workstation

RADIOGRAPHIC (X-RAY) **FEATURES**

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

TOMOGRAPHIC (CT) **FEATURES**

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

> 4531 mm 178.4 in

OPTIONAL FEATURES³

Additional Operating Modes Barcode or RFID Readers Multiplexing Networking Palette Queuing System

Conveyor Capacity Load Increase External USB Ports



524.0 in

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Astrophysics - INDIA

+91.11.41709990

Zoom

TECHNICAL Steel Penetration:1

N42.46-2008) Contrast Sensitivity: 2% at 50 mm Steel Views per Pass: 7 Rotations per Pass: 45.85°

RADIOGRAPHIC (X-RAY)

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

TOMOGRAPHIC (CT)

Voxel Resolution: 6 mm³ Rotational Image: 360°

GENERATOR

450kV
4.0 mA, 1.8kW
Oil Cooling Chiller & Pump
Horizontal Side Shooter, Split into
Angled Fan Beams
7 x 2432 Channels in L-Shaped Arrays

ENVIRONMENTAL

Operating Temperature: Humidity:

0°C to 45°C / 32°F to 113°F 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)

Astrophysics HQ +1.909.598.5488 Astrophysics - EMEA

Astrophysics - ASIA +961.9.832.500/1/2 +63.2.812.0033

ANAB

ISO 9001 & ISO 14001: Certified

¹As tested on Astrophysics Inc. Test Piece.

²Weight and dimensions of the system may vary depending on customization. ³Optional 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. Contact sales@astrophysicsinc.com for the most updated brochures



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