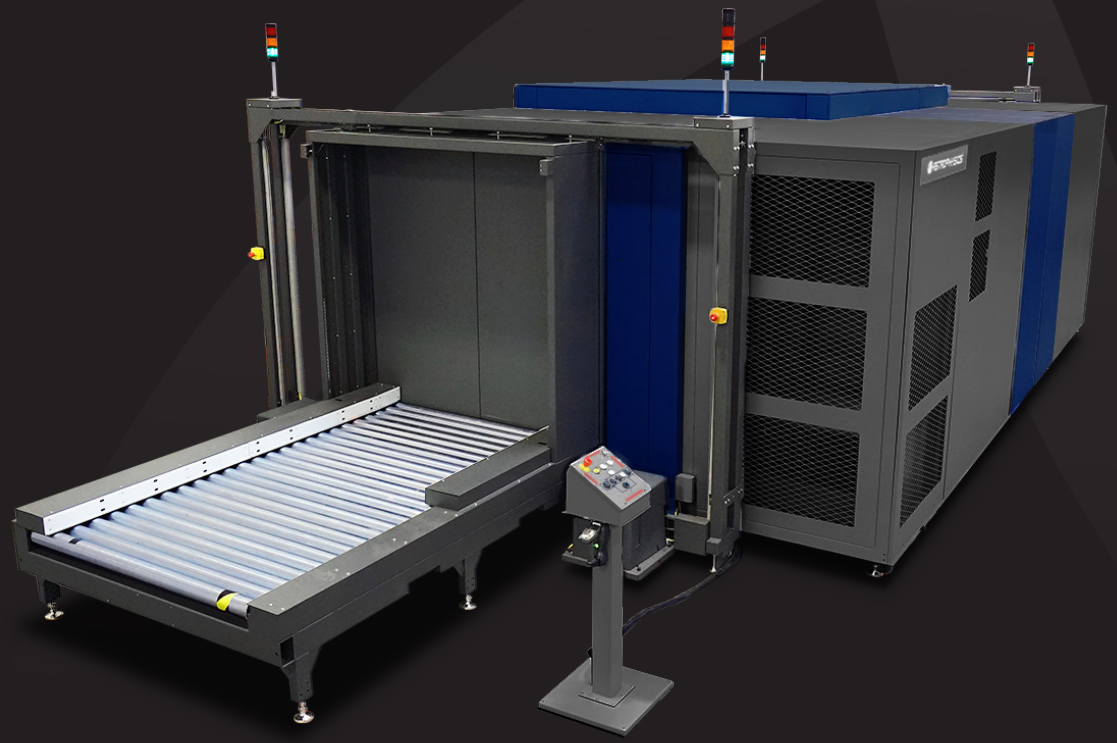
ASTROPHYSICS®



## THE FIRST 3D CT CARGO SYSTEM

The Multi-View CT™ 450 (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™ 450 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™ 450 produces 7 x-ray images, each from a different and distinct angle. Multiple passes can produce up to 35 surrounding images in just 180 seconds.

**COMPUTED TOMOGRAPHY (CT) MODE:**
To inspect complex, cluttered, and even non-homogeneous cargo, the Multi-View CT™ 450 can combine data from 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.

# MULTI-VIEW CT™ 450

MADE IN THE USA OF U.S. & IMPORTED PARTS
USA

**TOMORROW'S TECHNOLOGY** FOR TODAY'S SECURITY™

## GENERAL SPECIFICATIONS

| | |
|---|---|
| Tunnel Size: (WxH) | 167.6 cm x 170.2 cm<br>66.0" x 67.0" |
| Dimensions:[2] (LxWxH) | 1331.1 cm x 453.1 cm x 296.0 cm<br>524.0" x 178.4" 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<br>48.0" x 48.0" x 65.0" |
| Roller Bed Capacity: | 1600kg (3527lbs) Pallet |
| Roller Bed Speed: | 0.2 m/s (0.66 ft/s) |
| Scan Duration (1 pass): | 24 Seconds |
| Scan Duration (5 passes): | 180 Seconds |
| Throughput (5 passes): | Typical 20 Pallets/Hour |

## IMAGING

Dual View X-Ray, Multi-View X-Ray, CT Reconstruction

## GENERATOR

| | |
|---|---|
| Voltage: | 450kV |
| Cooling: | Oil Cooling Chiller & Pump |
| Beam Direction: | Horizontal Side Shooter, Split into Angled Fan Beams |

## ENVIRONMENTAL

| | |
|---|---|
| Operating Temperature[1]: | 0°C to 45°C / 32°F to 113°F |
| Humidity[1]: | 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

- Astrophysics Management
- Control Pedestal
- Inspection Workstation
- Search Workstation
- Systems

## RADIOGRAPHIC (X-RAY) FEATURES

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

## 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

## OPTIONAL FEATURES[3]

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

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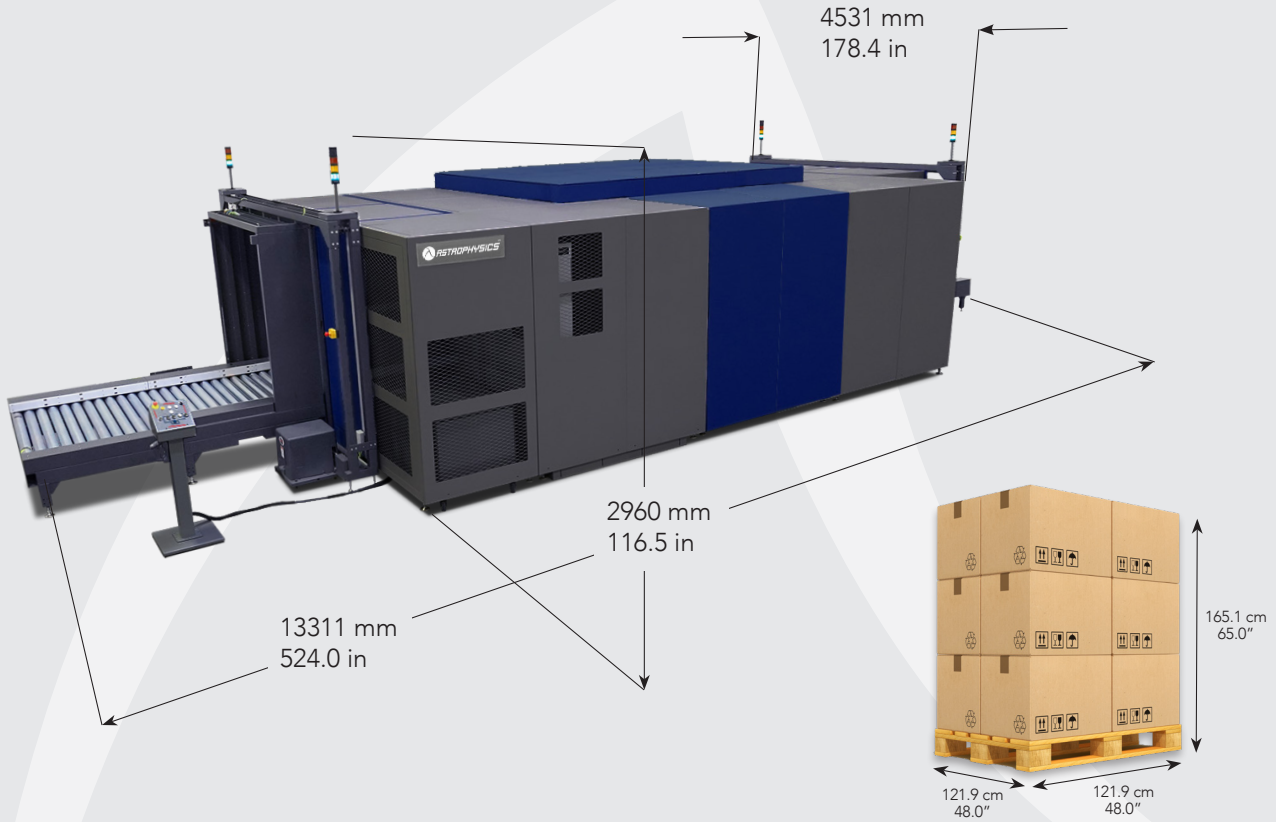
- Conveyor Capacity Load Increase
- External USB Ports





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ISO 9001 & ISO 14001: Certified

[1]*With an optional AC kit.*
[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. Contact sales@astrophysicsinc.com for the most updated brochures.*

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