

AstroScan 6545 Conveyor X-ray Scanner



The **AstroScan 6545** is designed and developed to be the ideal solution for the screening of small parcels for airport, government and commercial applications. The tunnel opening of 650mm (25.6") wide by 450mm (17.7") high was specifically designed to allow most parcels and hand carried luggage to be easily examined.

The **AstroScan 6545** uses a high-resolution X-ray detector array for improved image presentation and increase automatic threat detection.

The **AstroScan 6545** is ergonomically designed with operator comfort and ease of operation as a main feature of the system. The unit has a detachable control unit that allows the operator to change positions and it increases the functionality of the image and conveyor controls, while reducing fatigue.

The **AstroScan 6545** is a PC based system that can be networked with other inspection systems and can transmit data via Ethernet using the TCP/IP network protocol system. Images from each **AstroScan 6545** can be sent through a network to a central server PC where the images can be viewed, stored or printed.

IMAGING CHARACTERISTICS

- Variable intensity control
- Pseudo Colour
- Programmable Zoom 2x to 32x
- Edge Sharpening
- Programmable Penetration Levels
- Automatic Z Measurement
- 2 x 19" Colour Monitors
- Organic and Inorganic Imaging
- Geometrical Distortion Control



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TECHNICAL SPECIFICATIONS

Sensitivity	36 AWG guaranteed using new ASTM F-792
Spatial Resolution	1 mm using new ASTM F-792 test Bag
Penetration	22mm steel guaranteed using new ASTM F-792 test Bag
Contrast Sensitivity	1T-H4 guaranteed 1T-H3 typical, 4096 gray scale levels
Dose per Inspection	0.1 mR typical
Tunnel Opening	25.6" wide (650mm) x 17.7" high (450mm)
Material Discrimination	Dual-Energy HI-MAT + Organic=Orange, Inorganic=Blue, Mixed=Green
Power Requirements	115-120 VAC, 60Hz, (10 Amp max) 230-240 VAC, 50Hz (7 Amp max)

X-RAY GENERATOR

Voltage	160 kVp tube, operating at 140kVp
Tube Current	0.8mA
Cooling	Sealed Oil Bath
Duty Cycle	100%
Beam Direction	Vertically Upward
X-Ray Detector	1280 photo diodes in an "L" shaped configuration

ENVIRONMENTAL CONDITIONS

Operating Temperature	-17°C to 50°C
Storage Temperature	-40°C to 70°C
Humidity	Less than 95%

COMPUTER SPECIFICATIONS

Minimum Configuration	Pentium IV, 3.0 Ghz, Ram: 256 Mb, HDD: 40 GB, CDROM
Video Displays	Dual 19" SVGA high resolution, low radiation, flicker free flat monitor

PHYSICAL SPECIFICATIONS

Length	87.49 inches (2222.4 mm)
Height	50.50 inches (1282.7 mm)
Width	32.38 inches (822.3 mm)
Weight	Approximately 990lbs (450Kgs)
Shipping Weight	Approximately 1140lbs (519Kgs)
Conveyor Speed	45 feet per minute (.023m per sec)
Conveyor Height	28.80 inches (731.5 mm)
Conveyor Capacity	220 lbs. (100kg)
Construction	Steel frame on casters



HEALTH AND SAFETY

All X-ray systems are certified to be in full compliance with all international radiation safety requirements and external emissions limits. Typical leakage radiation is less than 0.1 mR/hr compared to a maximum of 0.5 mR/hr permitted.

FILM SAFETY

Guaranteed for high-speed films up to ISO1600

OPERATIONAL STANDARDS

Complies with all published International Standard including the U.S. Federal Aviation Administration Standards, "Use of X-ray Systems" (Federal Standards 14 CFR 108.17 and 14 CFR 129.26)