



AstroScan 5335 - Conveyor X-ray Scanner

Compact, lightweight and ergonomic conveyor X-ray scanner designed to inspect briefcases, purses, backpacks, mailbags, trays and parcels. Designed and developed for the screening of small parcels for mailrooms, prisons, courthouses, government buildings, schools, hospitals and corporate offices

The tunnel opening of 21" x 14" (533 x 356 mm) was specifically designed to accommodate the majority of parcels to be easily examined. The system uses a high-resolution X-Ray detector array for improved image presentation and increased automatic threat detection.



PC based system that incorporates latest electronic technology in an enhanced modular design. The unit utilizes a high speed computer that implements advanced complex algorithms in real-time operation.

IMAGING CHARACTERISTICS

- Organic & Inorganic Imaging
- Edge Sharpening
- Pseudo Color
- Variable Intensity Control
- Programmable Zoom 2X to 32X
- Archiving of images (20,000)
- Programmable Penetration Levels
- 19" Color Monitor
- Atomic Number Measurement

TECHNICAL SPECIFICATIONS

Sensitivity	40 AWG typical; 38 AWG guaranteed; 40 AWG in 24 bits
Spatial Resolution	1mm using new ASTM F-792 test Bag
Penetration	0.38" (9..5 mm min, 11 mm typical) using new ASTM F-792 test Bag
Contrast Sensitivity	65,000 tones standard, 2 million with 24 bit system
Dose Inspection	0.1 mR typical
Tunnel Opening	21 inches wide (53cm) x 14 inches high (35 cm)
Material Discrimination	Dual-Energy HI-MAT + Organic=Orange, Inorganic=Blue, Mixed=Green
Power Requirements	110 - 120 VAC (6 Amps. max), 220 – 240 VAC (3 Amps.)

X-RAY GENERATOR

Voltage	110 kVp tube, operating at 90kVp
Tube Current	0.8mA
Cooling	Sealed Oil Bath
Duty Cycle	100%
Beam Direction	Vertically Upward
X-Ray Detector	1024 photo diodes in an "L" shaped configuration

PHYSICAL SPECIFICATIONS

Weight	Approximately 340kg
Conveyor Speed	45 feet per minute(13.5 meters per minute)
Conveyor Capacity	200lbs (90kg)
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.

OPERATIONAL STANDARDS

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

ENVIRONMENTAL CONDITIONS

Operating Temperature	32° to 113°F to 45°C
Storage Temperature	32° to 113°F to 45°C
Humidity	20 - 95%, non-condensing

COMPUTER SPECIFICATIONS

Minimum Configuration	Pentium-IV, 2.4 GHZ, Ram: 256Mb, HDD: 40 GB, CD ROM, FDD: 1.44Mb
Video Displays	Single 19" SVGA high resolution, low radiation, flicker free flat monitor

FILM SAFETY

Guaranteed for high-speed films up to ISO1600