

# 150150 X-RAY INSPECTION

Explosives, Weapons and Contraband

SINGLE SOURCE, MULTI-ENERGY

X-RAY INSPECTION



Featuring a heavy-duty, motorized rollerbed conveyor, the Autoclear 150150 X-ray inspection system is designed to screen cargo and pallets for weapons, explosives, currency and other contraband. The low positioned rollerbed makes it convenient for pallet loading and offloading when screening shipments at customs facilities, airports and warehouses. Detailed X-ray images with advanced image enhancement tools assist operators to locate areas of concern in densely packed items.

- > Screen dense cargo, break bulk, and out of gauge objects quickly and thoroughly
- > Extremely rugged frame construction resists wear
- > Built to meet the most challenging throughput demands

#### APPLICATIONS:

- > Cargo and Freight Screening
- > Hold Baggage Inspection
- > Customs and Border Inspection
- > Delivery Checkpoints

# 150150 SPECIFICATIONS

X-RAY INSPECTION

## PHYSICAL DETAILS

<b>Tunnel Size:</b>	150.0 x 150.0 cm 59.0 x 59.0 in. (W x H)
<b>Dimensions:</b>	367.0 x 240.0 x 208.7 cm 144.5 x 94.5 x 82.2 in. (L x W x H)
<b>Weight:</b>	1,406 kg (3,100 lbs.) uncrated 1,633 kg (3,600 lbs.) crated
<b>Construction:</b>	Steel frame inner construction with stainless steel and heavy gauge epoxy painted outer panels and trim; non-marking casters
<b>Temperature:</b>	0° to 40°C (32° to 104°F)
<b>Humidity:</b>	20% to 95%, non-condensing
<b>Storage:</b>	To 65°C (149°F)
<b>Power Consumption:</b>	< 2.5 kVA, three phase 208, 380, 415 or 480 volts AC $\pm$ 10%; all at 50 or 60 Hz

## X-RAY GENERATOR

<b>X-ray Tube Head:</b>	Self-contained
<b>High Voltage Rating:</b>	160 kV, operating at 140 kV
<b>Duty Cycle:</b>	100% with sealed oil bath cooling
<b>Beam Orientation:</b>	Diagonal (80° beam divergence)
<b>Dose Per Exam:</b>	0.1 mR (1 $\mu$ Sv)

## INSPECTION CAPABILITIES

<b>Material Penetration:</b>	27–29 mm (1.06–1.14 in.) steel
<b>Contrast Sensitivity:</b>	Over 2 million color tones standard
<b>Resolution:</b>	38–40 AWG wire
<b>Processing:</b>	32-bit adaptive image processing with minimum 1 Gbytes+ memory; 2.2GHz+ dual core processor; video processing using next generation graphical processing unit architecture with 550MHz+ GPU clock, 512Mbyte+ video memory and 32+ stream processing cores
<b>Conveyor Speed:</b>	24.0 cm (9.4 in.) per second 14.6 m (48.0 ft.) per minute
<b>Pulling Weight:</b>	1,200 kg (2,700 lbs.)
<b>Film Safety:</b>	Guaranteed for high-speed film up to ISO 1600 (33 DIN)

## DETECTORS

L-shaped detector for 100% object screening

Surface mounted, multilayer, fully integrated, high frequency solid state detectors using high speed processors and Pentium 4 image processing

## VIDEO

Color 17" monitor, 1280 x 1024 video card

## STANDARD FEATURES

- autoSoft operating system
- Full-size operator control panel (OCP) with touchpad navigation
- Motorized rollerbed conveyor
- Reversible rollerbed direction
- High/low density stripping
- Organic/inorganic stripping
- Color; reverse B/W imaging
- Interactive help screens
- 128x Smart Zoom
- Adjustable zoom preview window
- D-SCAN
- Dark and light enhance
- RealClear
- autoDensAlert
- autoOutline
- autoSensing
- autoScale
- autoCal
- autoImage recall (10 images)
- Z-SCAN
- Save screen to USB
- Item counter

## OPTIONS

- Tropical humidity kit
- DVD drive
- autoMatAlert
- autoZ display
- Image archiving
- Threat image projection (TIP)
- Built-in training
- Level 1, 2 and 3 networking
- User management
- STI Viewer software for archived image analysis
- Locking metal OCP cover
- Dual and larger monitors
- Locking monitor garage
- Laser printer
- Console desk
- kV, mA meter
- Uninterruptible power supply
- Optical X-ray on/off sensor
- Footpad
- CE/CSA/ETL compliance

