

Cross-enhanced Backscatter and Multi-energy X-ray Technology:

Inorganics
(steel, nickel-cadmium, copper) from the transmission image are cross-enhanced to the backscatter image.

Organics
(plastics, explosives, narcotics, liquids) from the backscatter image are cross-enhanced to the transmission image.

Both images are presented on one monitor for easier viewing.

6444BZD X-RAY INSPECTION

Explosives, Weapons and Contraband

CROSS-ENHANCED BACKSCATTER, MULTI-ENERGY

The 6444BZD leverages patented cross-enhanced, multi-energy backscatter X-ray technology to highlight organic and inorganic matter. Autoclear's unique single X-ray focal spot design provides identical pixel-for-pixel registration of both backscatter and transmission images to more readily reveal concealed objects, and display areas of concern in bright color. The 6444BZD scanner features a single generator. This approach is designed to lower operating and maintenance costs, reduce dose exposure, improve image analysis ergonomics, and reduce the system footprint.

- Autoclear's Eco-Dose is the lowest radiation dosage in the industry
- Creates images that no other machine can
- Cross-enhancement makes it easier to identify potential threats such as explosives hidden behind batteries in a laptop computer
- Both transmission and backscatter images appear on one monitor for easier viewing

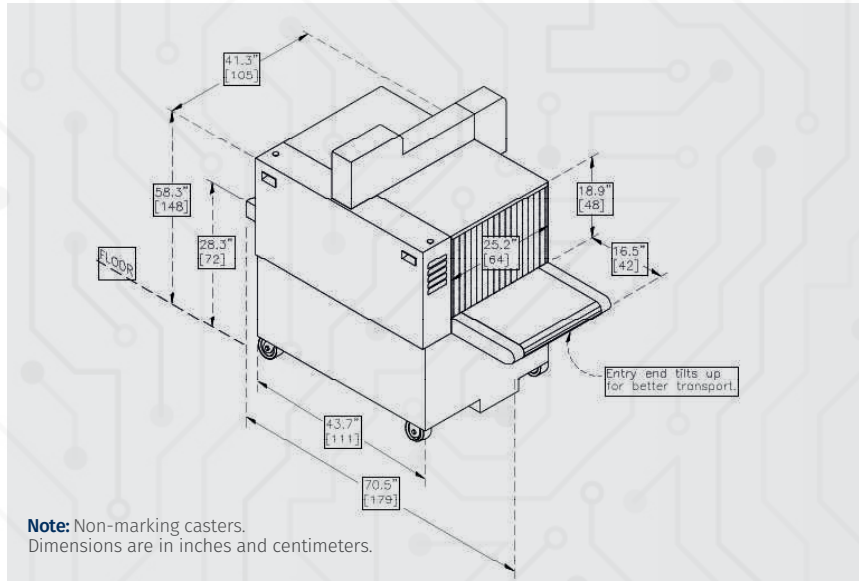
APPLICATIONS:

- Military
- Corrections
- Customs and Border Inspection
- Embassies and Consulates
- Corporate, Government, and Private Security
- VIP and Diplomatic Protection
- High-Risk Events

6444BZD SPECIFICATIONS

PHYSICAL DETAILS

Tunnel Size:	64.0 x 44.0 cm 25.2 x 17.3 in. (W x H)
Overall Dimensions:	111.0 x 103.0 x 148.0 cm 43.8 x 40.6 x 58.3 in. (L x W x H)
Weight:	544 kg (1,200 lbs.) Net weight 635 kg (1,400 lbs.) Shipping weight
Construction:	Unibody heavy gauge steel construction, epoxy painted; with stainless steel and aluminum trim and accessories; non-marking casters
Temperature:	Operating: 0° to 40° C (32° to 104° F) Storage: -20° C to 60° C (-4° to 140° F)
Humidity:	20%-95%, non-condensing
System Power:	115 /230 VAC +/- 10% 60/50 Hz 1.7 kVA max



Note: Non-marking casters.
Dimensions are in inches and centimeters.

X-RAY INSPECTION

X-RAY GENERATOR

X-ray Tube Head:	Self-contained with sealed oil bath cooling
High Voltage Rating:	160 kV, operating at 140 kV
Duty Cycle:	100%
Dose per Exam:	<0.1mR; <i>May be higher or lower due to differing combinations of kV level & X-ray beam configuration</i>
Radiation Leakage:	<0.5mR/hr (<5.0µSv/hr); <0.1mR/hr (<1.0µSv/hr) available

INSPECTION CAPABILITIES

Material (steel) Penetration:	26 mm guaranteed (28 mm typical)
Contrast Sensitivity:	Over 2 million color tones standard
Resolution (wire):	24 mm guaranteed (26 AWG typical)
Conveyor Speed:	13.7 cm (5.4 in.) per second 8.4 m (27 ft.) per minute
Pulling Weight:	160 kg (352 lbs.)
Film Safety:	Guaranteed for high-speed film up to ISO 1600 (33 DIN)

DETECTORS

High-speed, ultra-sensitive photodiode detector array; L-shaped for 100% package screening

VIDEO

19" Color LCD monitor, 1280 x 1024 video card

STANDARD FEATURES

- autoCal
- autoDensAlert
- autoImage recall (10 images)
- autoOutline
- autoScale
- autoSensing
- autoSoft (LINUX) operating system
- autoTracking guided conveyor belt
- 128x Smart Zoom
- Adjustable zoom preview window
- Color; reverse B/W imaging
- Dark and light enhance
- D-SCAN
- Entrance tunnel extension
- Exit tunnel extension
- Full-sized operator control panel (OCP) with touchpad navigation
- High/Low Density and Stripping
- Interactive help screens
- Organic / Inorganic
- RealClear
- Real-Time Diagnostics
- Reversible conveyor direction
- Save screen to USB
- Z-SCAN

OPTIONS

- autoMatAlert
- autoZ display
- Adjustable OCP side mount
- Built-in training
- CCE Full Screen Presentation
- CE/CSA/US safety/EMC certification
- Console desk
- DoD Secure version
- DVD drive
- Footpad
- Image archiving (500K)
- Image export in BMP & JPG
- Item counter
- kV, mA meter
- Laser printer
- Loading or exit rollerbeds
- Locking metal OCP cover
- **Networking:**
 - autoNet Live View
 - Remote Diagnostics
 - Remote Image Review
 - Remote Management
- Optical X-ray on/off sensor
- Tunnel extensions
- Sharp Scroll
- Tropical humidity kit
- Uninterruptible power supply
- Tunnel extensions
- User management
- X-ray image viewer software

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HEALTH & SAFETY

Compliant with US FDA, Chapter I: Department of Health and Human Services, Subchapter J: Radiological Health, Performance Standards for Ionizing Radiation Emitting Products: 21 CFR 1020.40 Cabinet X-ray Systems.

ISO 2015-9001 REGISTERED

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