The precision of multi-energy backscatter X-ray technology, generous tunnel size, and a shorter footprint come together in the 8880BZD. Autoclear’s unique single X-ray focal spot design creates identical pixel-for-pixel overlays of both backscatter and transmission images to produce better views of concealed objects, and display areas of concern in bright color. Unlike similar systems, BZD scanners feature a single generator. This breakthrough approach is designed to lower operating and maintenance costs and significantly reduce dose exposure.

- Unique single generator and monitor design
- Safer, faster and more accurate than conventional backscatter
- Cross-enhancements expose potential threats in color

Cross-enhanced backscatter: 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.

Applications:
- Military
- Customs
- Corrections
- Corporate, government and private security
- VIP and diplomatic protection
- Embassies and consulates
- High-risk events
**8880BZD SPECIFICATIONS**

### PHYSICAL DETAILS

**Tunnel Size:** 88.0 x 80.0 cm  
34.6 x 31.5 in. (W x H)

**Dimensions:** 168.0 x 156.0 x 171.0 cm  
66.1 x 61.4 x 67.3 in. (L x W x H)

**Weight:** 830 kg (1,830 lbs.) uncrated  
966 kg (2,130 lbs.) crated

**Construction:** Unibody heavy gauge epoxy painted steel construction with stainless steel and aluminum trim and accessories; non-marking casters

**Temperature:** Operating: 3° to 40°C (37° to 104°F)  
Storage: -48° to 60°C (-55° to 140°F)

**Humidity:** 20% to 95%, non-condensing

**Power Consumption:** < 1.7 kVA single phase, 50 or 60 Hz:  
< 14 Amps @ 110-120 VAC, requires 20 Amp service; < 7 Amps @ 220-240 VAC, requires 10 Amp service

### VIDEO

Color 27" monitor, 1920 x 1080 video card

### STANDARD FEATURES

- autoSoft operating system
- Full-size operator control panel (OCP) with touchpad navigation
- autoTracking guided conveyor belt system
- High/low density and stripping
- Organic/inorganic stripping
- Color; reverse B/W imaging
- Interactive help screens
- 128x Smart Zoom
- Adj. 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
- Built-in folding conveyor extension and table
- Varible height keypad mount

### OPTIONS

- Loading or exit rollerbeds
- Tropical humidity kit
- DVD drive
- autoMatAlert
- auto2 display
- Image archiving
- Built-in training
- Level 1, 2 and 3 networking
- User management
- Locking metal OCP cover
- STI Viewer software for archived image analysis
- Dual monitors
- Laser printer
- Console desk
- kV, mA meter
- Uninterruptible power supply
- Optical X-ray on/off sensor
- Footpad
- Item counter

### X-RAY GENERATOR

**X-ray Tube Head:** Self-contained with sealed oil bath cooling

**High Voltage Rating:** 160 kV

**Duty Cycle:** 100%

**Beam Orientation:** Vertically upward

**Dose Per Exam:** < 10 µR (0.1 µSv)

### INSPECTION CAPABILITIES

**Material Penetration:** 26 mm (1.02 in.) steel

**Contrast Sensitivity:** Over 2 million color tones standard

**Resolution:** 26 AWG wire typical

**Processing:** 32-bit adaptive image processing with minimum 1 Gbytes+ memory; 2.2GHz or 2.4 GHz+ dual core processor; video processing using next generation graphical processing unit architecture with 550MHz+ GPU clock, 512Mbyte+ video memory and 32+ stream processing cores

**Conveyor Speed:** 12.2 cm (4.8 in.) per second  
7.3 m (24 ft.) per minute

**Pulling Weight:** 160 kg (352 lbs.)

**Film Safety:** Guaranteed for high-speed film up to ISO 1600 (33 DIN)

### DETECTORS

High sensitivity scintillator and photomultiplier tube sub-assembly for transmission and backscatter image

**NOTE:** Non-marking casters. Dimensions are in centimeters.