

IMAGING & SCREENING SECURITY SYSTEM

VP-XR1810D-BSJ8

ADVANCED THREAT DETECTION X-RAY CARGO SCANNER



FEATURES

Dual X-ray generator with dual view display technology for advanced and effective security

Single display monitor with 7 Colors image displaying technology for advance material classification

Dual energy penetration system supports high/low density and organic/inorganic discerning

Supports real-time storage and retrieval of scanned images

System initiates auto-diagnostic and calibration automatically at power on

Suitable for scanning large-sized baggage at borders/immigration security check points and cargo terminals

Energy efficient & environment protective design

TECHNICAL SPECIFICATIONS

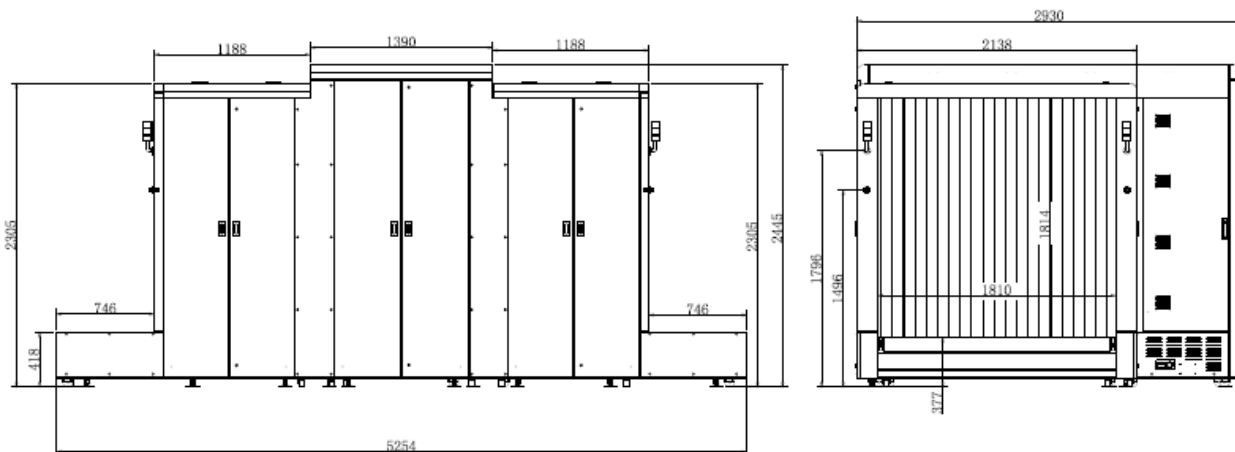
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X-Ray Generator	Tunnel Size	1820(W)x 1820(H)mm
	Wire Resolution	Typical AWG38 (top view) Typical AWG38 (side view)
	Spatial Resolution	1.0 mm Horizontal, 1.0 mm Vertical
	Steel Penetration	36~40 mm
	Beam Direction	Downward, Sideward
	X- Ray Generator	200kVx2
	X-Ray Leakage	≤ 0.1 mR/hr(1.0 μSv/hr)
	S/N Ratio	<68dB
	Conveyor Speed	0.2m/s
	Conveyor Height	380mm
	Conveyor Max Load	3000kg
	Leakage Current	1.0mA
	Cooling	Sealed oil bath with forced air
	Duty Cycle	100%,no warm-up procedure required
	Film Safety	Guarantee ISO 1600 (33 DIN)
	Storage Capacity	Up to 2,000,000 images stored automatically.
Image Processing System	Operation System	Windows®OS
	Processor	Intel i5
	Display	Single 34"curved-display, full HD resolution: 3440x 1440
	Operation Console	Optional
	Storage	1TB SSD (standard) , Customizable
	Keyboard	Included
	Roller	Integrated with tunnel at entry & exit
	X-Ray Sensor	L-shaped photodiode array detector (dual energy),24bit depth
	Color Image Display	24 bit/pixel color display
	Edge Enhancement	Supports clear outlining of the object edges
Power & Environmental	Working Temperature	0°C ~ 40°C
	Storage Temperature	-20°C-60°C
	Humidity	Up to 95% non-condensing
	Working Voltage	AC220V(±10%) 50/60Hz, 10A Max
	Power Consumption	Max. 5.5KW
Mechanical	Dimensions	5254(L) x 2445(W) x 2930(H) mm
	Net Weight	6100kg
Certifications	Certifications	CE, FCC, RoHS, FDA

*Exact products and specifications shown may vary by geographic region and are subject to change without notice. Weights and measurements are approximate and may vary.

DIMENSIONS

Unit: mm



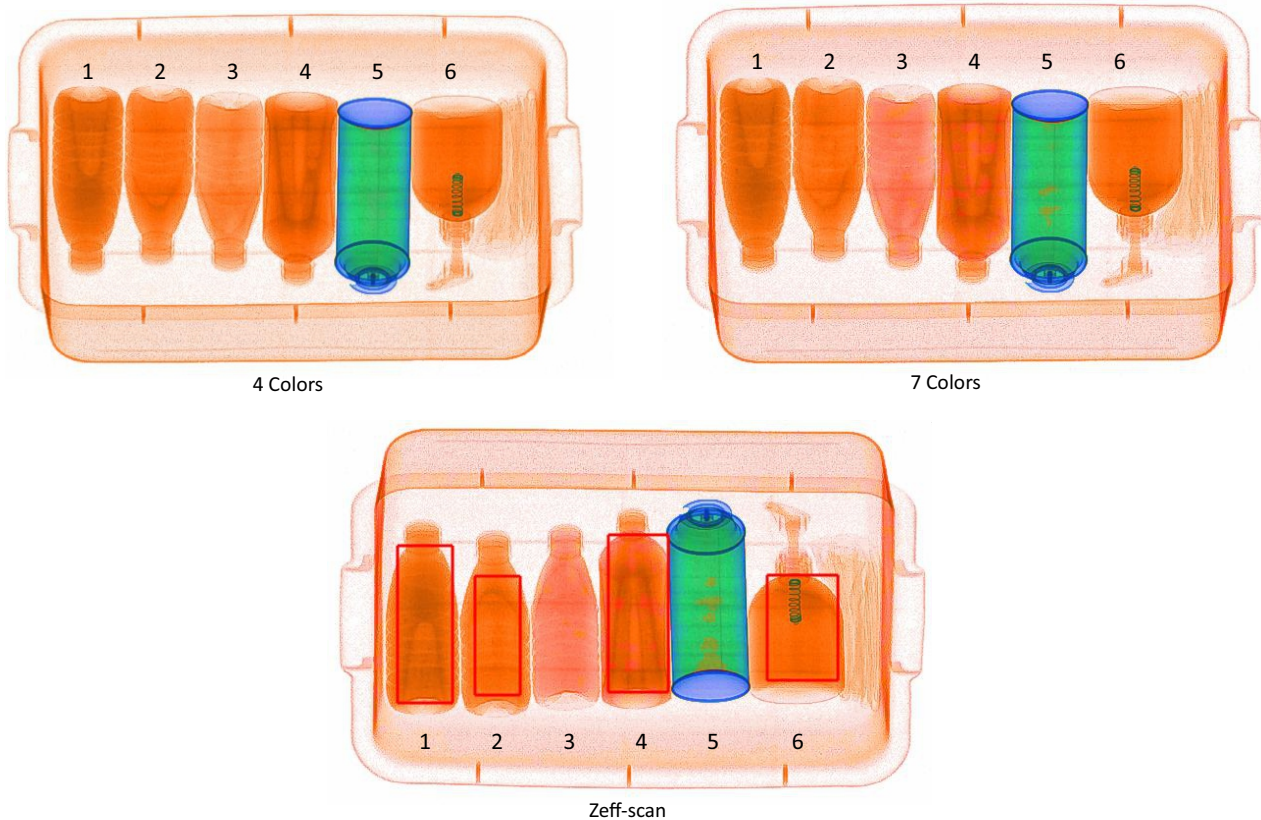
Software Advantages:

■ 4 & 7-COLOR IMAGING & ASSISTANT EXPLOSIVE AND NARCOTICS DETECTION

The innovative 7-color imaging dual-energy technology is an advance material classification system which enables operator to view screened objects in 7 colors, each color correlate to a specific range of atomic number. It colors the 3-Kerosene with RED, hence easier to detect threats.

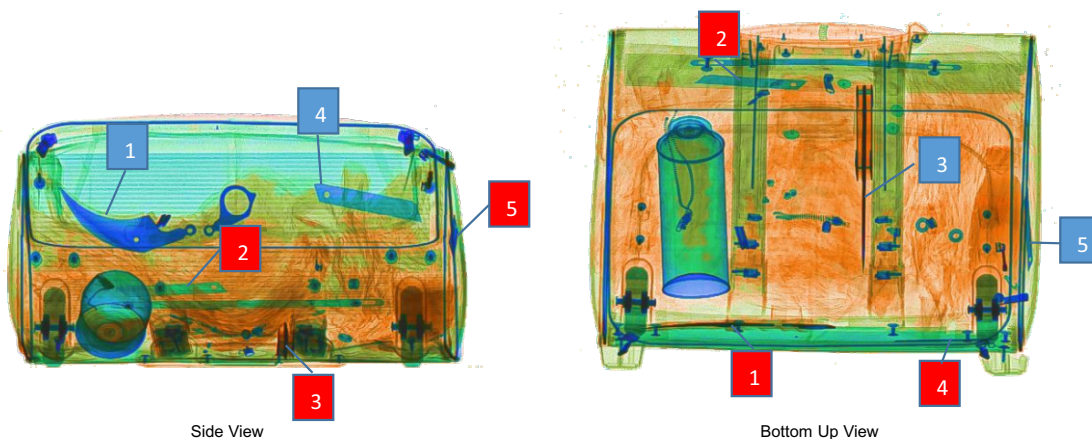
Combine with the Zeff-scan function to auto-highlight the potential threat of explosive and narcotic (Zeff 7.8.9) on X-ray image in real time during scanning process according to the characteristics range of explosives and narcotics atomic number , which help to identify the suspicious material more effectively.

* 1-Water, 2-Alcohol, 3- Kerosene, 4-Edible Oil, 5-Liquefied Natural Gas, 6-Antibacterial Hand Gel



■ DUAL-VIEW TECHNOLOGY

It provides dual-view images from bottom up and sideward, improving the detection rate of the concealed dangerous and prohibited objects. Images from the two perspectives complement each other, the operator can see more threats in the side view that can't be seen in the bottom-up view.



Material Type	Atomic No.	Colors	Colors	Example	Possible Threat
Light Organics	6	Orange	Orange	Polyethylene light hydrocarbons	Natural gas, gasoline, kerosene
Organics	6-8	Orange	Orange	Timber, oil, alcohol, water	Explosives pure drugs, diamonds
Light Inorganics	8-10	Orange	Yellow	Paper, teflon	Drugs
Inorganics	10-12	Green	Green	Glass	Gems
Nonmetals and Light Metals	12-18	Green	Green	Aluminum,silicon	Gunpowder, detonators
Heavy Metals	18-30	Blue	Blue	Iron, steel, copper, brass,nickel,titanium	Weapons,ammunition knives
Dense Metals	30+	Blue	Violet	Zirconium,tin,bronze	Precious
Impenetrable	-	Black	Black	Lead,bismuth	Hidden threats

■ SOFTWARE ADVANTAGES:

The software is to control the X-RAY baggage scanner as well to acquire and process the X-RAY image with different tools to find the potential threat, all the tools can be controlled by Exclusive Control Panel.

IMAGING PROCESSING TOOLS

- Switchable 4 and 7 Colors Mode
- Inverse Mode
- Gray
- Variable Gamma
- Organics & Inorganic & Mixture Striping
- Plus 6 kinds Pseudo Color Display
- Variable High & Low Penetration
- Log & Exp Trans
- Gaussian Blur& Sharpen
- Super &Partial Enhancement
- High & Low & Fusion Energy
- Density Threshold Alarm(DTA)
- Continuous Zoom(64X)
- Splicing-scan(S-scan)
- Continuous Scan(C-scan)
- Zeff-scan(Z-scan)
- AI Roller(optional)
- Reset Image
- Calibration

AUXILIARY FUNCTIONS

- Bidirectional Scanning
- Recall Historical Image
- Print Image
- Baggage Counter
- Day/Time Display
- Multi-language Operation (optional)
- Auto Image Archiving
- Storage Type:PNG, JPEG, BMP
- Start-up Self-diagnostics
- AI object identification with 150+ objects detection (optional)
- Real-time Image Manipulation
- Different Access Level Account
- Network Ready (optional)
- Secure Access Key
- Built-in Cameras (optional with 4 cameras)
- Emergence Stop Button
- 0.5 m Roller Table (optional)
- Automatic Tray Return System (optional)
- Threat Image Projection(TIP)(optional)
- Operator Training System (OTS)(optional)

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