

IMAGING & SCREENING SECURITY SYSTEM

VP-XR65503D-BSJ8 X-RAY BAGGAGE SCANNER WITH 3D IMAGING



FEATURES

X-Ray generator with 3-D perspective technology for efficient security

Dual energy penetration with 7 Colors imaging system supports organic/inorganic discerning & advance material classification

Supports real-time storage and retrieval of scanned images

System initiates auto-diagnostic and calibration automatically at power on

Versatile software with more than 30 image processing functions including auto-inspection of drugs and explosives

Suitable for scanning mid-sized baggage at airports, bus/train/metro stations, borders/immigration security check points

TECHNICAL SPECIFICATIONS

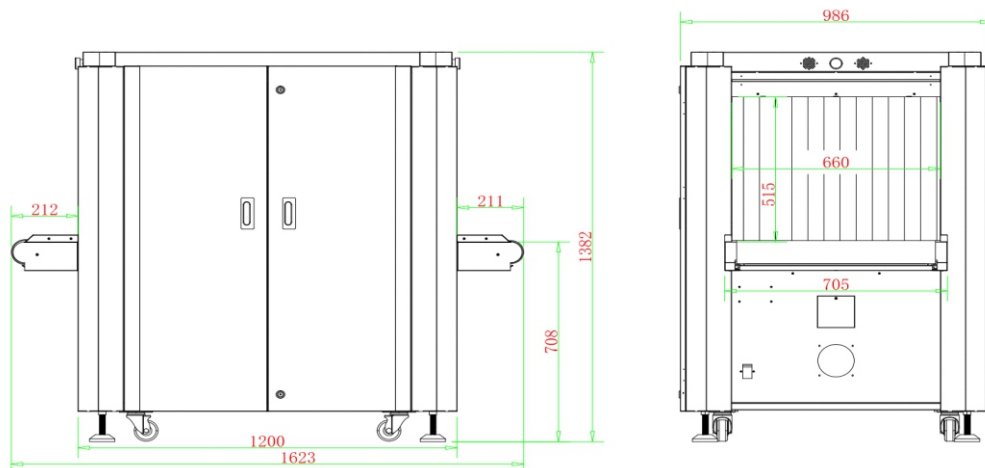
VP-XR65503D-BSJ8

X-Ray Generator	Tunnel Size	661(W)x 509(H)mm
	Wire Resolution	Typical AWG40(top view); Typical AWG40(side view)
	Spatial Resolution	1.0mm, horizontal:1.0mm
	Steel Penetration	36mm
	Beam Direction	Diagonally Upward
	X Ray Generator	160KV
	X Ray Leakage	≤ 0.1 mR/hr(1.0 μSv/hr)
	S/N Ratio	<60dB
	Conveyor Speed	0.23m/s
	Conveyor Height(mm)	708
	Conveyor Max Load	165kg
	Tube Current	≤0.7mA
	Cooling	Sealed oil cooling with forced air
	Duty Cycle	100%,no warm-up procedure required
	Film Safety	Guarantee ASA/ISO1600 Film
Image Processing System	Operation System	Windows®OS
	Display	Single 21.5" LCD color, resolution: 1980 x 1080
	Operation Console	Optional
	Storage	1TB SSD (standard),Customizable
	Storage Capacity	Up to 2,00,000 images stored automatically.
	Keyboard	Keyboard included
	Roller Table	Optional
	X-Ray Sensor	L-shaped photodiode array detector (dual energy)
	Color Image Display	24 bit 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.2.2 kW
Mechanical	Dimensions	1623(L) x986(W)x 1382(H)
	Net Weight	485kg
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

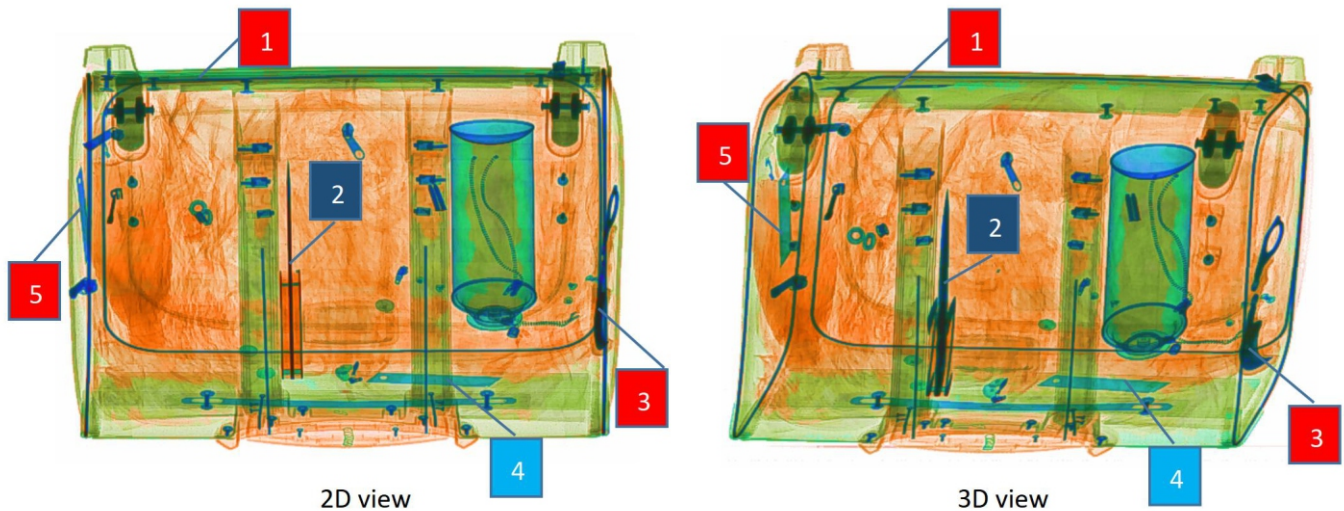
Unit: mm



Software Advantages:

■ 3-D PERSPECTIVE TECHNOLOGY

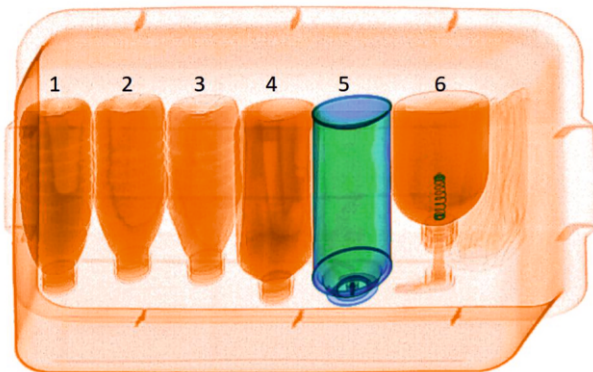
With the increase in modus operandi to avoid detection of prohibited material in X-RAY baggage scanners, it has become increasingly difficult to detect these threats with typical 2D technology, therefore innovative 3D perspective technology has evolved to counter such threats. Compared to conventional imaging technology, the 3D perspective can see more blind spots, making threats easier to detect. As below illustration, the threats 1,2,5 can be seen clearly with 3D.



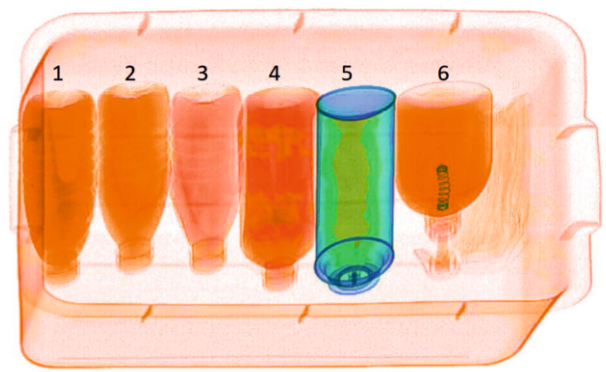
■ 4 & 7-COLOR IMAGING

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.

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

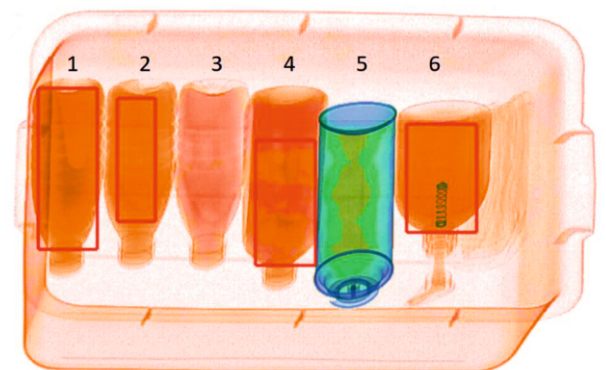


4 Colors Mode



7 Colors Mode

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 (Zeff 7.8.9), which help to identify the suspicious material more effectively.



Zeff-scan

Material Type	Atomic No.	4 Colors	7 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)
- Z_{eff}-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)
- Interlock(optional)
- Threat Image Projection(TIP)(optional)
- Operator Training System (OTS)(optional)

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