

IMAGING & SCREENING SECURITY SYSTEM

VP-XR60403D-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

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

Supports real-time storage and retrieval of scanned images

System initiates auto-diagnostic and calibration automatically at power on

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

TECHNICAL SPECIFICATIONS

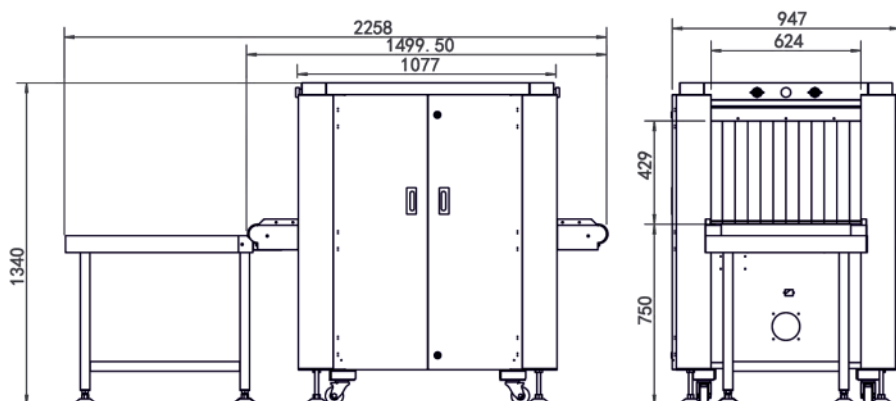
VP-XR60403D-BSJ8

| | | |
|-------------------------|---------------------|--|
| X-ray Generator | Tunnel Size | 624(W) x429(H)mm |
| | Wire Resolution | Typical AWG40(top view); Typical AWG40(side view) |
| | Spatial Resolution | Vertical:1.0mm, horizontal:1.0mm(top view) |
| | Steel Penetration | 36mm(top view); 36mm(side view) |
| | X-Ray Direction | Diagonally Upward |
| | X Ray Generator | 160KV |
| | X ray Leakage | ≤ 0.1 mR/hr(1.0 μSv/hr) |
| | S/N Ratio | <45dB |
| | Conveyor Speed | 0.23m/s |
| | Conveyor Height(mm) | 750 |
| | Conveyor Max Load | 165kg |
| | Leakage Current | ≤0.7mA |
| | Cooling | Sealed oil cooling |
| | Duty Cycle | 100%,no warm-up procedure required |
| | Film Safety | Guarantee ASA/ISO1600 Film |
| | Storage Capacity | Up to 2,00,000 images stored automatically. |
| Image Processing System | Operation System | Windows®OS |
| | Display | Single 21.5" LCD color, resolution: 1980 x 1080 |
| | Operation Console | Available /optional |
| | Storage | 1TB SSD (standard) |
| | Keyboard | Keyboard included |
| | Roller Table | Integrated with tunnel |
| | X-ray sensor | L-shaped photodiode array detector (dual energy),24bit depth |
| | Color Image Display | 24 bit color display |
| | Edge Enhancement | Supports clear outlining of the object edges |
| | Image Recall | Supports 30 images recallable |
| 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. 500W |
| Mechanical | Dimensions | 1500(L)x947(W)x1340(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

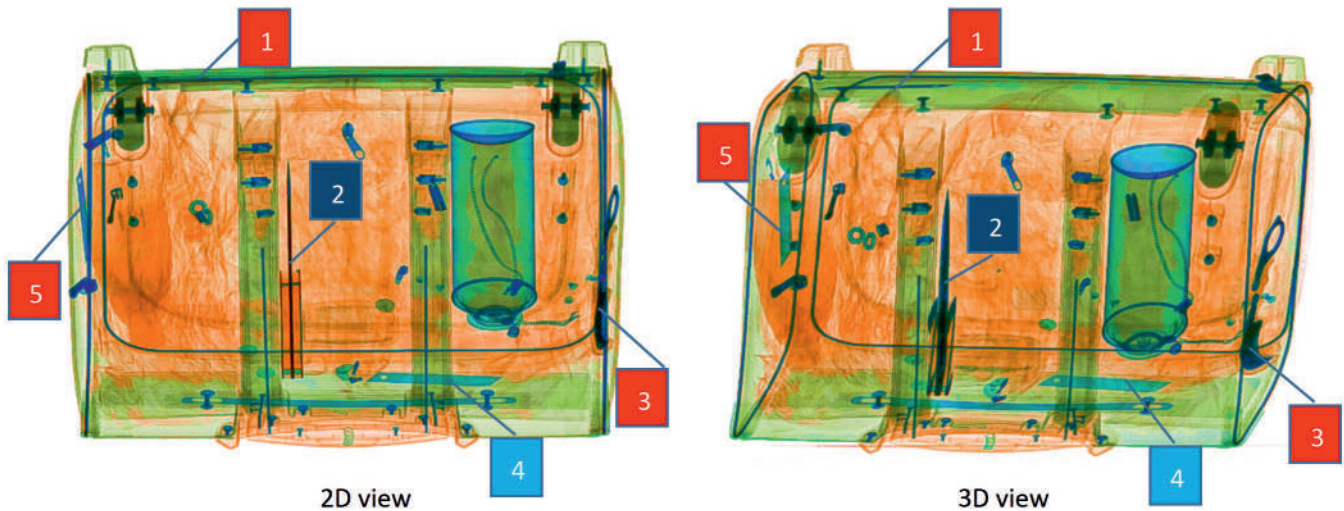
Unit: mm



Software Advantages:

■ 3-D PERSPECTIVE TECHNOLOGY

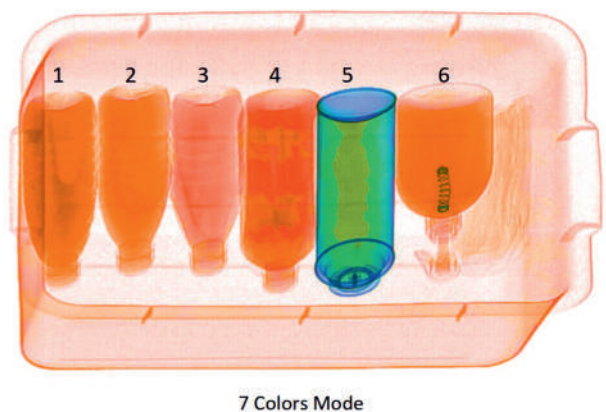
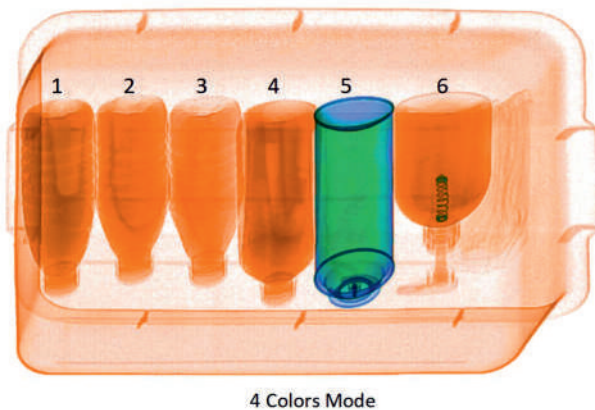
With the increase in modus operandi to avoid detection of prohibited material in X-RAY baggage scanners, it has become increasingly difficult to detect these threats with typical 2D technology, therefore innovative 3D perspective technology has evolved to counter such threats. Compared to conventional 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.



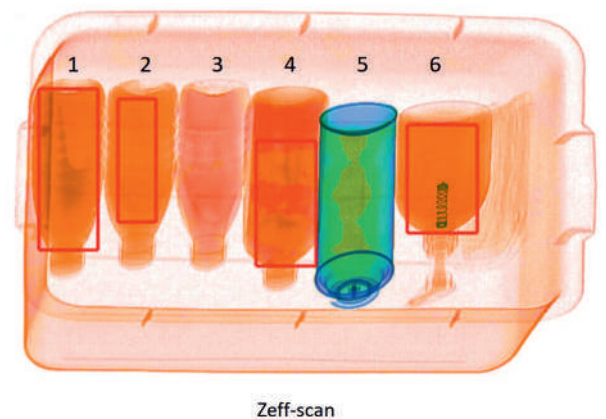
■ 4 & 7-COLOR IMAGING

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



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.



| 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
- Query & Backup & Mark Image
- Print Image
- Baggage Counter
- Day/Time Display
- Multi-language Operation
- Auto Image Archiving
- Storage Type:PNG, JPEG, BMP
- Start-up Self-diagnostics
- Real-time Image Manipulation
- Different Access Level Account
- Network Ready
- Secure Access Key
- Emergence Stop Button
- 0.5 m Roller Table
- Interlock(optional)
- Threat Image Projection(TIP)(optional)
- Operator Training System (OTS)(optional)

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