

Dual View Multi-energy X-Ray Security Scanner



Applications

- Hand carry/backpack, medium size inspection.

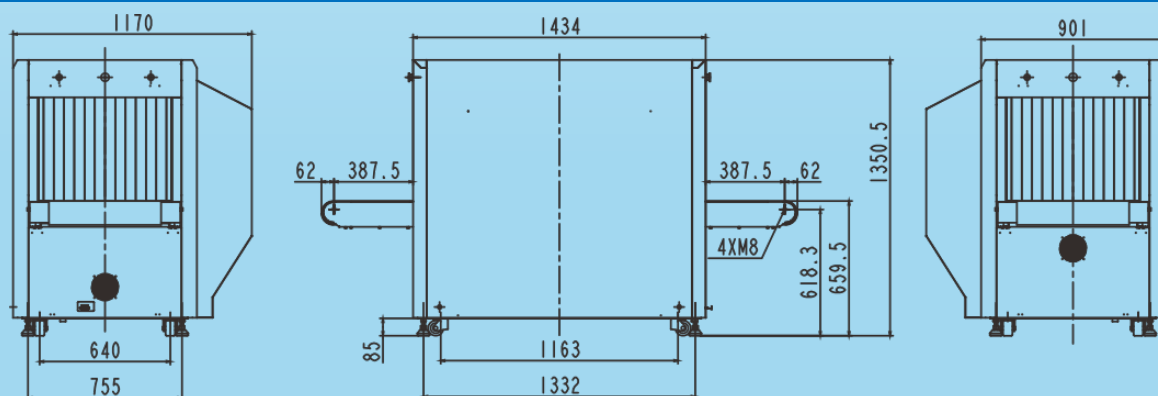
Widely used in:

- Airport, seaport,
- Warehouse,
- Custom, post border,
- Logistic, medium parcel inspections,
- Hotel and other important places.

HIGHLIGHTS

1. **Dual View Detection System** – Two independent X-ray generators and detection modules provide comprehensive dual-angle scanning.
2. **Synchronized Real-Time Imaging** – Dual acquisition and transmission systems deliver real-time synchronized images from different perspectives.
3. **High-Power X-Ray Generator** – Up to **160kV / 1.2mA**, equipped with a Digital RS-232 interface and automatic warm-up function to prevent damage and extend generator lifespan.
4. **High-Definition Imaging** – $\Phi 0.0787\text{mm}$ (AWG40) wire resolution, 1.58mm high-resolution detector, and penetration up to 37mm steel plate.
5. **Dual Monitor for both view with realtime images** – High resolutions display for each view (Top and Side).
6. **External Display Image Counter**– For fast reviewing the images.
7. **Automatic Drugs & Explosives Detection (DEI)** – Intelligent material identification of narcotics and explosive.
8. **Hi-Spot & HDA Technology** – Enhanced contrast imaging with automatic suspicious object alerts.
9. **Modular Design with Self-Diagnosis** – Automatic monitoring of X-ray generator, detector array boards, and light barrier system for easy maintenance.
10. **User-Friendly Operation** – Intuitive software, ergonomic hardware design, dedicated control keyboard, and mouse-based zoom & image navigation.
11. **AI driven for Automatic Object Recognition** – Assists operators in identifying potential threats in real time with enhanced accuracy.
12. **Customization** – Bigger External Display Counter, Image transfer to external Network Archive Storage/Reviewer, OCR /Tag reading, real photo, etc.

DIMENSION



TECHNICAL PARAMETER & SPECIFICATIONS

General Specifications

Tunnel Size	650mm (W) * 550mm (H)
Conveyor Speed	0.2 m/s up to 0.5m/s
Max. Conveyor Load	200kg (evenly distributed)
System Noise	<60dB
Dimension & Weight	2333 x 1170 x 1350 (mm), 600kg

Performance Index

Line Resolution	0.0787 mm Metal Wire (AWG40)
Penetration	38 mm Steel
Radiation Leakage	<0.5 μ Sv/hour
Dose Per Inspection	<3.5 μ Sv
Image Resolution	1280x1024/24Bits
Film Safety	ISO 1600 guaranteed

Image Processing

X-ray Detector	- Dual L-shaped High resolutions detector (1.58 mm pitch). - Data Acquisition with Ethernet interface.
Image Processing	- Color / Black & White - Multi-energy - Organic/Mineral Strip - Edge Enhancement - Super Enhancement - Negative view (invert) - H/L Penetration - Gray Level Scanning - Pseudo Color - DEI - High Density Alarm - Hi-Spot
Dual View	- Dual view images display synchronically - Dual channel image management system, synchronically review supported
Material Classification	- Organic: Orange - Light Metal and Mixture: Green - Metal: Blue - High Density Material: Black/Red
Zoom	1-32 Times for any zone, Dynamic, Smooth & Stepless - Full screen zoom by one click
Display Screen	- Two-screen display with High Resolution 21.5" LCD Color, External Display Images Counter. - Display Touchscreen (Optional).
Image Recall	200 images.
Image Storage	200,000 images (at least) - Image Export - Image Simulated Playback - Image Batch Conversion (to .jpg) - Image Search
Additional Features	- External Display Counter - Customized Shortcuts - Image Retrieval - User Report Management - Self-diagnosis - Date/time Display - Multi-language - System Work Time Counter, X-Ray Work Time Counter - Maintenance Warning - Quick Shutdown - Multi-level User Management

X-Ray Generator

Beam Direction	Diagonally Downward & Sideward
X-ray Generator Interface	RS-232 Digital Interface with Auto warming up
Tube Voltage	130-160kV (Adjustable)
Tube Current	0.3-1.2 mA (Adjustable)
Cooling / Duty Cycle	Sealed Oil Cooling/100%
Beam angle	80°

Installation Data

Storage Temperature/Humidity	-20 °C ~ +50 °C / 10%~ 95% (Non-condensing)
Working Temperature/Humidity	0 °C ~ +45 °C / 10% ~ 95% (Non-condensing)
Working Voltage	220Vac $\pm$ 10%,50Hz/60Hz $\pm$ 3Hz
Power	0.8 kVA