MTC-XR53HK

Single-View and Single-Energy X-ray Intelligent Security Inspection System



General specifications

Size	
Inspection Type	Single-View, Single-Energy X-Ray
Tunnel Size	500 × 300 mm (W × H)
Machine Dimensions	1483 × 730 × 1100 mm (L × W × H)
Net Weight	Approx. 210 kg (excluding exit table)
X-Ray Performance	
Line Resolution	38 AWG standard, 40 AWG typical
Steel Penetration	8 mm standard, 10 mm typical
X-Ray Generator	1 unit
Anode Voltage / Current	80 kV / 0.6 mA (Adjustable)
Cooling System	Oil Cooling
Working Cycle	Continuous Operation
X-Ray Beam Direction	Vertically Upward
External Radiation Dose Rate	< 1.0 μSv/h (at 100 mm from device surface)
Film Safety	ASA / ISO 1600
Conveyor System	
Conveyor Height	600 mm
Conveyor Speed	0.2 m/s
Maximum Load Capacity	100 kg
Display & Monitoring	
Display Size	21.5-inch LCD
Display Resolution	1920 × 1080
Monitoring Cameras	2 Channels
Camera Sensor	1/2.8" Progressive Scan CMOS
Video Compression	H.265 / H.264 / MJPEG
Video Storage	More than 30 days

Product Highlight

- **AI-Powered Intelligent Recognition:** Advanced deep learning algorithms enhance the identification of prohibited and suspicious items.
- **High-Resolution X-Ray Imaging:** Delivers detailed inspection images with advanced enhancement functions and up to 64X zoom.
- **Intelligent Security Detection:** Supports recognition of 15 prohibited item types across 7 categories.
- **Real-Time Video Monitoring:** Integrates surveillance cameras with X-Ray images for comprehensive security inspection.
- **Event Traceability:** Links baggage images with surveillance footage for convenient incident review and investigation.
- **Efficient Conveyor System:** Supports baggage weighing up to 100 kg with a conveyor speed of 0.2 m/s.
- **Smart Data Management:** Stores over 100,000 inspection images and supports local video and alarm record management.
- **Continuous Operation:** Designed for reliable security screening with an oil-cooled X-Ray generator and continuous working cycle.

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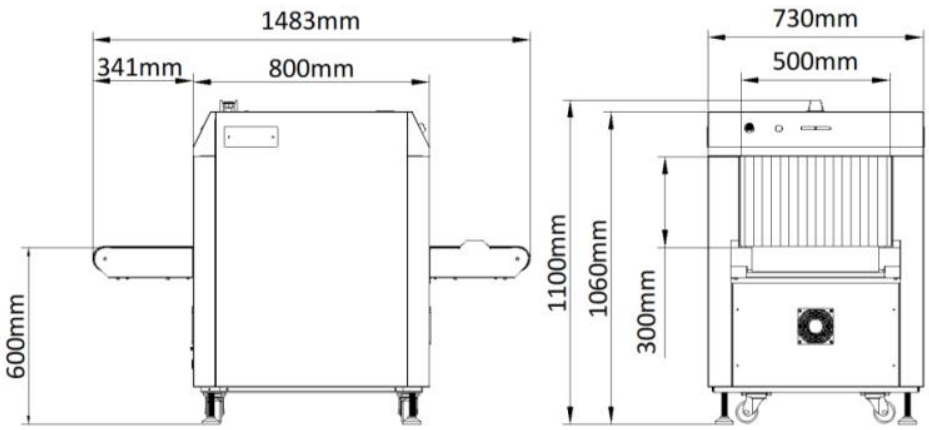
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AI & Image Processing	
Intelligent Recognition	7 Categories / 15 Types of Prohibited Items
Image Enhancement	Color / B&W, Pseudo Color, ABS+, ABS-, SEN, Edge Enhancement
Image Zoom	Up to 64X
Local Magnification	3X
Image Storage	100,000+ Images
Image Recall	Unlimited Recall
Event Traceability	X-Ray Image & Video Correlation
Electrical & Operating Conditions	
Power Supply	AC 110V / 230V, 50/60Hz
Power Consumption	Max. 0.5 kW
Noise Level	60 dB(A) at 1000 mm
Operating Temperature	5°C to 40°C
Operating Humidity	10%–95% RH (Non-condensing)
Storage Temperature	-20°C to 60°C

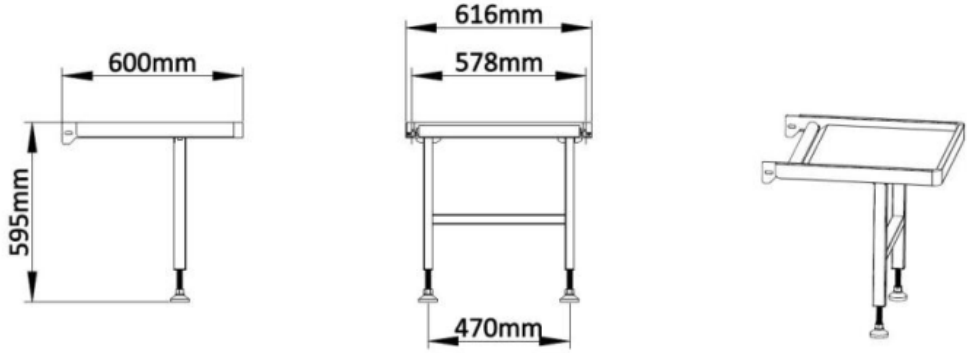
[1] Stated performance as measured by MatriXcope Imaging Standard Test Piece.
[2] The X-ray leakage rate reaches the natural environment background level, well comply for US FDA requirements.

Drawing

X-ray security inspection system



Exit Flat table



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