

ISD-CA6040S-H(BS)

DUAL-ENERGY SINGLE-VIEW X-RAY SECURITY INSPECTION MACHINE WITH BACKSCATTER AND ARTIFICIAL INTELLIGENCE FOR SECURITY DETECTION



Features Highlights

- HD Image Quality
- Backscatter Imaging
- AI Detection Algorithm
- Explosives Detection
- Material Classification:
3 Colors mode,
6 Colors mode
- Compact Design
- Water-Resistant Professional
Keyboard
- Package-Package Correlation
- Networking
- Easy to Operate
- Easy to Maintain
- Healthy and Safety

ISD-CA6040S-H(BS) is a new-generation X-Ray security inspection system engineered for security checkpoint. Designed to handle carry-on luggage, 20-inch cabin suitcases, backpacks, and parcels, it features integrated AI detection algorithms that enable automatic suspected objects alarming. The system is ideally suited for deployment across customs checkpoints, railway stations, ports, stadiums, and other high-traffic public venues.

HD Image Quality: Leveraging advanced X-Ray imaging technology and new-generation RAYTINA HD imaging algorithms, it delivers superior resolution image quality to meet the most demanding security and operational efficiency requirements.

AI Detection Algorithm: Powered by the HIKVISION Guanlan Large-Scale AI Models, the detection accuracy of suspected objects has been greatly improved while the false alarm rate has been greatly reduced.

Package-Package Correlation: Correlate the X-Ray image of the baggage with the image captured by the camera to make event tracing more convenient and accurate.

Compact Design: The compact design reduces spatial footprint, enabling easier deployment in space-limited entrance environments.

Specifications

Size

Tunnel	620 mm (W) × 420 mm (H)
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Dimensions	1700 mm (L) × 760 mm (W) × 1240 mm (H)
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Performance

Penetration ^[1]	40 mm standard, 42 mm typical
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Wire Resolution ^[1]	38 AWG standard, 40 AWG typical
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X-Ray Generator

Anode Voltage / Current	180 KV / 1.1 mA Max(Adjustable)
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Cooling / Work Cycle	Oil-Cooling / Continuous
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Radiation Safety

External Dose Rate ^[2]	< 1.0 μSv/h at 10 cm away from the device surface
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Film Safety	Standard of ASA/ISO1600
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Conveyor

Height	680 mm (Adjustable)
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Speed	0.2, 0.3, 0.4 m/s Adjustable
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Capacity	165 Kg (load even distributed)
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Camera System

Cameras	5-ch, Max. Resolution 1920 × 1080
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Display

Parameter	23.8-inch 1920 × 1080@120Hz LCD screen; Dual-Screen;
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Intelligent Function

Suspected Objects	38 categories
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Login Method	Fingerprint, Password
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Storage

Capacity	Total: 4 TB HDD; Image Storage: 100,000 +
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Device Parameters

Power Supply	230 VAC(±10%) 50 Hz/60 Hz(±3Hz) 110 VAC(±10%) 50 Hz/60 Hz(±3Hz)
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Power Consumption	Max. 0.92 KW
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Noise Level	< 60dB(A) at 100 cm away from the device surface
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Operating-/ Storage Temperature	0°C ~ 40°C / -20°C ~ 60°C
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Humidity	5% ~ 95% (not condensing)
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Weight	Net: approx. 490 Kg Gross: approx. 765 Kg
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Standard Functions

- Baggage Counting
- Power on Self-Check
- User Management
- Enhanced Scanning
- Bi-Directional Scanning
- Built-In System Diagnostics
- High Density Alarm
- Standby Mode

Optional Functions

- TIP Insertion
- TIP Report

Image Functions

- Color / Black & White(C/B&W)
- Organic Stripping(ORG-)
- Inorganic Stripping(INORG-)
- High / Low Penetration(H/L)
- Negative(NEG)
- Absorptivity Increase(ABS+)
- Absorptivity Decrease(ABS-)
- Super Enhancement(SEN)
- Edge Enhancement(Edge)
- Suspected materials Enhancement(Z789)
- 64X Zoom In
- 3X Local Magnification
- Image Recall Infinitely

^[1] Stated performance as measured by HIKRAYIN Imaging Standard Test Piece.

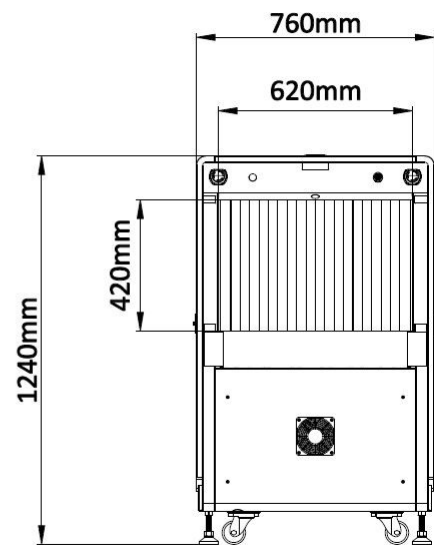
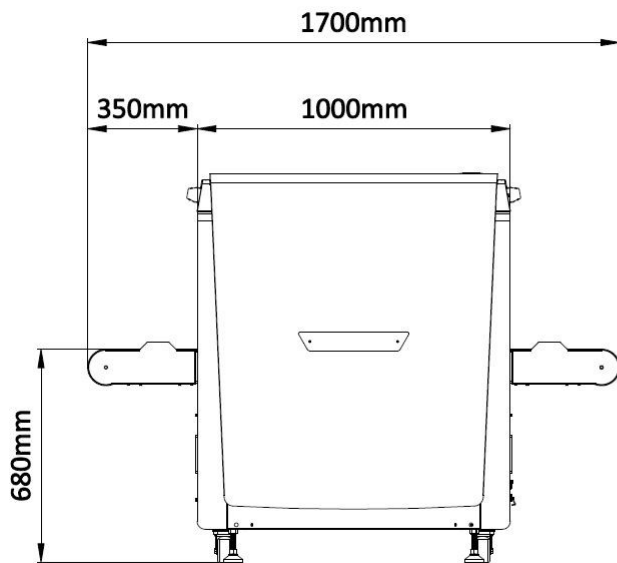
^[2] The X-Ray leakage rate reaches the natural environment background level, well comply for US FDA requirements.

Available Model

ISD-CA6040S-H(BS)(230V)(set)(O-STD)

ISD-CA6040S-H(BS)(110V)(set)(O-STD)

Dimensions



Optional Parts



Operation Desk



Roller Table



Side Keyboard Stand