

## ISD-SG5030S-CVL

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

The ISD-SG5030S-CVL X-ray intelligent inspection system which combines functions such as intelligent recognition, person and package linkage, etc., better solve more problems such as under-detection caused by low security inspector concentration, and excessive stress during peak security check. The product is applicable to application scenarios such as government office, scenic spots, court, procuratorate, prison, embassy, factory, school, hospital, sports, culture events etc. It is applicable for security inspection of satchels, parcels, express wares, hand baggage and small-sized packages.



- **Material Classification:** Advanced material discrimination technology is used to recognize the equivalent atomic number of the test object and assign different colors (3 or 6 colors).
- **Intelligent Recognition:** Integrated with self-developed IPR deep learning recognition and X-ray imaging algorithm, better improving the recognition.
- **Variable Speed:** One-click switch the speed according to usage scenario.
- **Networking:** Connect the HCP over network to manage the data for security inspection business.
- **Event Traceback:** Review the video that links with X-ray image to playback the situation at that time.
- **Data Storage:** Supports storing and reviewing video, images, and alarm information locally of security inspection system.
- **Package-Package correlation:** Link the X-ray image of the baggage with the picture of the tunnel camera.
- **Video-Package Correlation:** Link the X-ray image of the baggage with the video of the cameras.

## ▪ Specification

<b>▪ Size</b>	
Tunnel Size	500 mm(W) × 300 mm(H)
Dimension	1483 mm(L) × 730 mm(W) × 1100 mm(H)
<b>▪ Performance</b>	
Line Resolution <sup>[1]</sup>	38 AWG standard, 40 AWG typical
Penetration <sup>[1]</sup> (Steel)	30 mm standard, 32 mm typical
<b>▪ X-ray Generator</b>	
X-ray Generators	1
Anode Voltage / Current	140 kV / 1.0 mA (Adjustable)
Cooling / Working Cycle	Oil-cooling / Continuous
Orientation	Vertically upward
<b>▪ Radiation</b>	
External Dose Rate <sup>[2]</sup>	< 1.0 μSv/h (100mm away from the device surface)
Film Safety	Standard of ASA / ISO1600
<b>▪ Conveyor</b>	
Height	600 mm
Speed	0.2 m/s, 0.3 m/s adjustable
Load	100Kg
<b>▪ Monitoring System</b>	
Sensor Type	1/2.8" Progressive Scan CMOS
Cameras	2-ch
Video Compression Standard	H.265 / H.264 / MJPEG
Max. Image Size	1920 × 1080
Video Storage Capability	More than 30 days
<b>▪ Display</b>	
Screen Size	21.5", Single-screen
Resolution	1920 × 1080
<b>▪ Intelligent Functions</b>	
Prohibited Goods	35 categories with 64 types
Login Method	Password
<b>▪ System Functions</b>	
Standard	Time / Date, baggage counting, user management, log management, X-ray on time, power on self-test, enhanced scanning, system information management, built-in system diagnostics, standby mode, training, HCP, organic materials alarm, non-penetration alarm, explosive detection, etc.
<b>▪ Image Process Functions</b>	
Image Enhancement	Color / Black & White(C/B&W), Organic stripping(ORG-), Inorganic stripping(INORG-), Negative, High / Low penetration(H/L), Absorptivity increase(ABS+), Absorptivity decrease(ABS-), Super Enhancement(SEN), Edge Enhancement(Edge) and Suspect materials enhancement(Z789), 64X zoom in and 3X image magnifier, etc.
Material Classification	3 Colors mode (Default) 6 Colors mode (Optional)
Image Recall	Recall infinitely
Image Storage Capability	100,000 +
<b>▪ Device Parameters</b>	
Power Consumption	Max. 0.6 KW
Power Supply	AC 2200V (-15% to +10%) , 50Hz/60Hz (±3Hz); AC 110V (-15% to +10%) , 50Hz/60Hz (±3Hz)
Noise Level	60dB(A), 1000 mm away from the device surface
Operating Temperature / Humidity	5 °C to 40 °C / 10 % to 95 % (non-condensing)
Storage Temperature / Humidity	-20 °C to 60 °C / 0 % to 95 % ( non-condensing)
Weight	Net: approx. 450 Kg

<sup>[1]</sup> Stated performance as measured by HIKVISION Imaging Standard Test Piece.

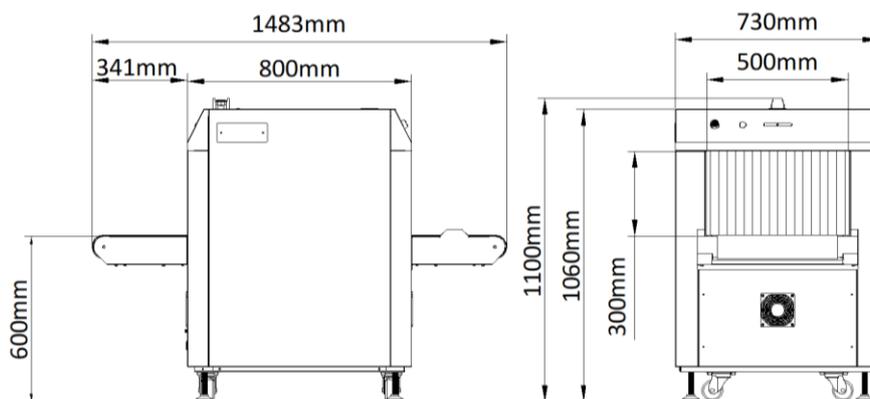
<sup>[2]</sup> The X-ray leakage rate reaches the natural environment background level, well comply for USFDA requirements.

▪ **Available Model**

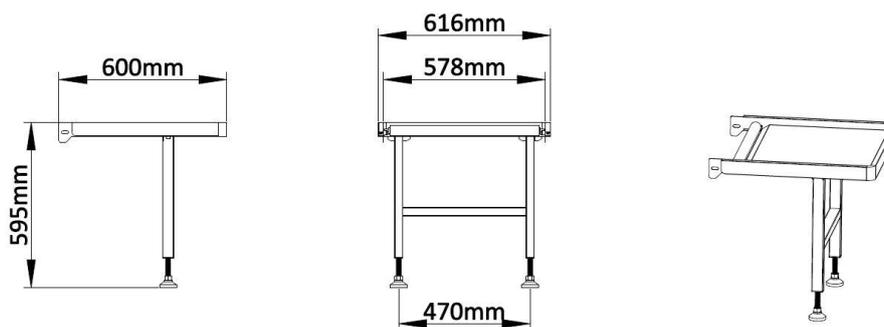
ISD-SG5030S-CVL(220V)(set)(O-STD)  
 ISD-SG5030S-CVL(110V)(set)(O-STD)

▪ **Dimension**

- X-ray security inspection system



- Exit Flat table



▪ **Accessory**

▪ **Optional**

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