PRODUCT QUICK GUIDE





Put Every Effort to Make a Safer World

Intelligent recognition technology

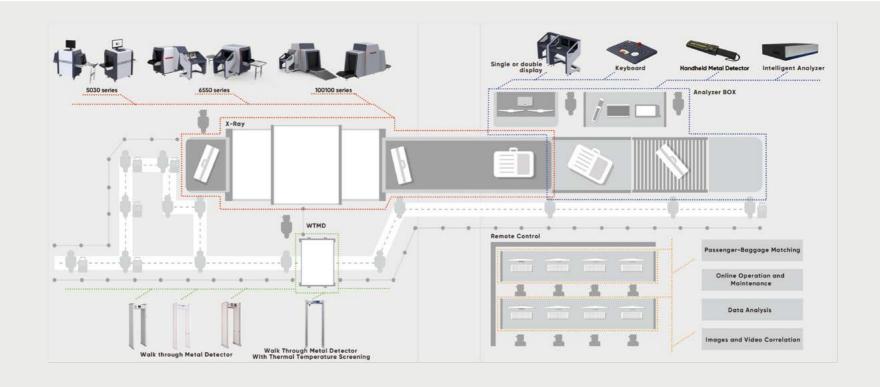
> With built-in intelligent recognition and using high-quality X-ray imaging, the security inspection system can assist in identifying 15 kinds of common contraband and transmit real-time detection results with alarm messages back to the management platform for data analysis and event tracing.

Multi-dimensional data perception

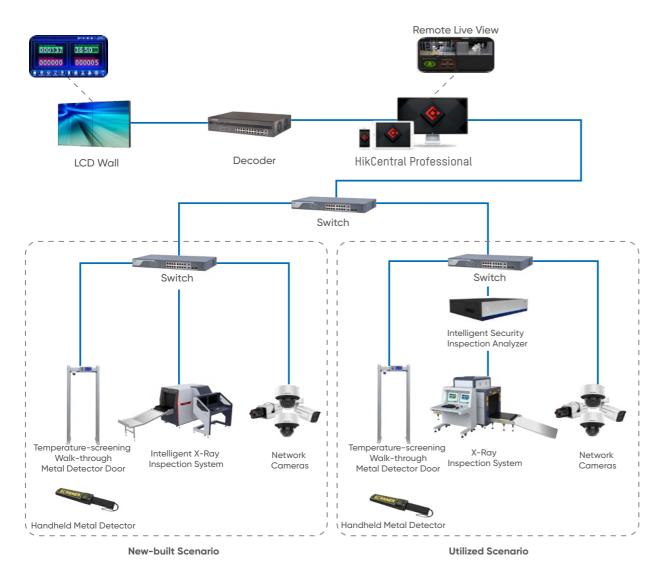
> Empowered by AI, IoT and big data technologies, the intelligent inspection system integrates inspection information including X-ray images, videos, metal detection results, body temperatures, and more. The system also features automatic video correlation, real-time previewing, and retrospective playback on the centralized management platform.

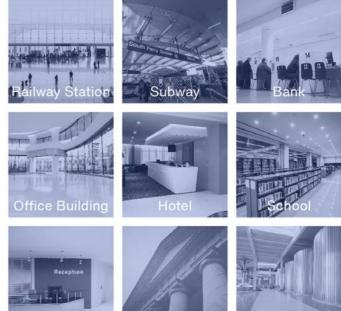
Centralized management and easy integration with thirdparty systems

> Local data can be integrated and managed by the management systems (third-party systems supported) on demand. Management staff can view real-time operation status, maintenance information, and more on the platform, greatly enhancing efficiency.



Put Every Effort to Make a Safer World





Government

Hospital

Factory

X-ray Inspection System

Intelligent recognition technology

> With proprietary intellectual property rights, the deep-learning recognition algorithm provides a better recognition effect by deeply integrating the intelligent recognition algorithm and X-ray imaging software.

Raytina Series with new generation image enhancement engine

> With application of the dedicated high-performance image processor and the new generation of image enhancement engine, true image information restoration, clearer image quality and more delicate imaging details can be realized.

Security inspection networking and data storage

> Security data management can be realized with access to superior security inspection management platform. Data can also be locally stored(pictures, alarm information, etc..), viewed and called at the same time.

Variable speed

> The speed of the X-ray machine can be one-key switched in different scenarios.

Event tracing

> Event tracing can be realized by organically combining the X-ray image of the package video record.

High level radiation safety

> Radiation leakage is close to natural environment radiation level, and much lower than international radiation safety standards.



X-ray Inspection System

Model	ISD-SC4233S-2CVTL	ISD-SC5030S-2CVL	ISD-SC5030SA-2CL	ISD-SC6550D-4CVL	ISD-SC6550S-4CVL	ISD-SC100100D-4CVL	ISD-SC100100S-4CVL
lmage					FERM		
Tunnel Size	420 mm (W) x 330 mm (H)	500 mm (W) × 300 mm (H)	500 mm (W) × 300 mm (H)	650 mm (W) × 500 mm (H)	650 mm (W) × 500 mm (H)	1000mm (W) × 1000 mm (H)	1000 mm (W) × 1000 mm (H)
Dimension	1250 mm × 650 mm × 690 mm (L x W x H)	1586 mm × 1160 mm × 760 mm (L x W x H)	1586 mm × 1160 mm × 760 mm (L x W x H)	2454 mm × 1419 mm × 1376 mm (L x W x H)	2127 mm × 989 mm × 1351 mm (L x W x H)	4242 mm × 1800 mm × 1893 mm (L x W x H)	3592 mm × 1360 mm × 1894 mm (L x W x H)
Operation Desk Size	/	/	/	1200 mm × 700 mm × 1142 mm (L x W x H)	850 mm × 700 mm × 1200 mm (L x W x H)	1200 mm × 700 mm × 1142 mm (L x W x H)	850 mm × 700 mm × 1200 mm (L x W x H)
Wire Resolution	36AWG standard, 38 AWG typical	36AWG standard, 38 AWG typical	36 AWG standard, 38 AWG typical	36 AWG standard, 38 AWG typical	36 AWG standard, 38 AWG typical	34 AWG standard, 36 AWG typical	34 AWG standard, 36 AWG typical
Steel Penetration	18 mm standard, 20 mm typical	27 mm standard, 30 mm typical	6mm standard, 8mm typical	30 mm standard, 34 mm typical	30 mm standard, 34 mm typical	30 mm standard, 32 mm typical.	30 mm standard, 32 mm typical.
Spatial Resolution	1.3 mm (Horizontal and vertical)	1.0 mm (Horizontal and vertical)	1.0 mm (Horizontal and vertical)	Bottom Angle of View: 1.0 mm (Horizontal and vertical) Side Angle of View: 1.0 mm (Horizontal and vertical)	1.0 mm (Horizontal and vertical)	Bottom Angle of View: 1.3 mm (Horizontal and vertical) Side Angle of View: 1.0 mm (Horizontal and vertical)	1.3 mm (Horizontal and vertical typical)
X-Ray Generator	120 kV 1.0 mA (Adjustable)	140 kV 0.8 mA (Adjustable)	80 kV 0.6 mA (Adjustable)	160 kV 1.2 mA (Adjustable)	160 kV 1.2 mA (Adjustable)	160 kV 1.2 mA (Adjustable)	160 kV 1.2 mA (Adjustable)
Generator Cooling	Oil Cooling/Continuous	Oil Cooling/Continuous	Oil Cooling/Continuous	Oil Cooling/Continuous	Oil Cooling/Continuous	Oil Cooling/Continuous	Oil Cooling/Continuous
Film Security	Standard of ASA/IS01600	Standard of ASA/IS01600	Standard of ASA/IS01600	Standard of ASA/IS01600	Standard of ASA/IS01600	Standard of ASA/IS01600	Standard of ASA/IS01600
X-ray Leakage	Less than 1µSv/hour (5 cm from the housing)	Less than 1µSv/hour (5 cm from the housing)	Less than 1µSv/hour (5 cm from the housing)	Less than $1\mu Sv/hour$ (5cm from the housing)	Less than 1µSv/hour (5cm from the housing)	Less than 1µSv/hour (5cm from the housing)	Less than 1 μ Sv/hour (5cm from the housing)
Conveyor Height	110 mm	672 mm	672 mm	678 mm	678 mm	300 mm	300 mm
Speed	0.16 m/s, 0.22 m/s	0.22 m/s, 0.32 m/s adjustable	0.22 m/s	0.2 m/s, 0.3 m/s, 0.4 m/s adjustable	0.2 m/s, 0.3 m/s, 0.4 m/s adjustable	0.2 m/s, 0.3 m/s, 0.4m/s adjustable	0.2 m/s, 0.3 m/s, 0.4m/s adjustable
Sensor Type	1/2.7" Progressive Scan CMOS	1/2.7" Progressive Scan CMOS	1/2.7" Progressive Scan CMOS	1/2.7" Progressive Scan CMOS	1/2.7" Progressive Scan CMOS	1/2.7" Progressive Scan CMOS	1/2.7" Progressive Scan CMOS
Camera	2 ch	2 ch	2 ch	4 ch	4 ch	4 ch	4 ch
Video Compression Standard	H.265/H.264/MJPEG	H.265/H.264/MJPEG	H.265/H.264/MJPEG	H.265/H.264/MJPEG	H.265/H.264/MJPEG	H.265/H.264/MJPEG	H.265/H.264/MJPEG
Max. Image Size	1920 × 1080	1920 × 1080	1920 × 1080	1920 × 1080	1920 × 1080	1920 × 1080	1920 × 1080
Frame Rate	50 Hz: 25 fps (1920 × 1080, 1536 × 864, 1280 × 720) 60 Hz: 30 fps (1920 × 1080, 1280 × 960, 1280 × 720)	50 Hz: 25 fps (1920 × 1080, 1536× 864, 1280 × 720) 60 Hz: 30 fps (1920 × 1080, 1280 × 960,1280 × 720)	50 Hz: 25 fps (1920 × 1080, 1536 × 864, 1280 × 720) 60 Hz: 30 fps (1920 × 1080, 1280 × 960, 1280 × 720)	50 Hz: 25 fps (1920 × 1080, 1536 × 864, 1280 × 720) 60 Hz: 30 fps (1920 × 1080, 1280 × 960, 1280 × 720)	50 Hz: 25 fps (1920 × 1080, 1536 × 864, 1280 × 720) 60 Hz: 30 fps (1920 × 1080, 1280 × 960, 1280 × 720)	50 Hz: 25 fps (1920 × 1080, 1536 × 864, 1280 × 720) 60 Hz: 30 fps (1920 × 1080, 1280 × 960, 1280 × 720)	50 Hz: 25 fps (1920 × 1080, 1536 × 864, 1280 × 720) 60 Hz: 30 fps (1920 × 1080, 1280 × 960, 1280 × 720)
Storage Time	≥ 30 days	≥ 30 days	≥ 30 days	≥ 30 days	≥ 30 days	≥ 30 days	≥ 30 days
Al Identification Items	15 types	15 types	/	15 types	15 types	15 types	15 types
Login Method	Fingerprint/ Password	Fingerprint/ Password	Fingerprint/ Password	Fingerprint/ Password	Fingerprint/ Password	Fingerprint/ Password	Fingerprint/ Password
Screen Size	21.5", Single Screen, 1920 × 1080	21.5", Single Screen, 1920 × 1080	21.5", Single Screen, 1920 × 1080	21.5", Dual Screen, 1920 × 1080	21.5", Single Screen, 1920× 1080	21.5", Dual Screen, 1920 × 1080	21.5", Single Screen, 1920× 1080
Consumption	< 0.56 KVA	< 0.56 KVA	< 0.5 KVA	< 1 KVA	< 0.8 KVA	< 1.5 KVA	< 0.8 KVA
Power	220 VAC (± 10 %) 50 ± 3 Hz	220 VAC (± 10 %) 50 ± 3 Hz	220 VAC (± 10 %) 50 ± 3 Hz	220 VAC (± 10 %) 50 ± 3 Hz	220 VAC (± 10 %) 50 ± 3 Hz	220 VAC (± 10 %) 50 ± 3 Hz	220 VAC (± 10 %) 50 ± 3 Hz
Operating Humidity	10 % to 95 % (No Condensation)	10 % to 95 % (No Condensation)	10 % to 95 % (No Condensation)	10 % to 95 % (No Condensation)	10 % to 95 % (No Condensation)	10 % to 95 % (No Condensation)	10 % to 95 % (No Condensation)
Operating Temperature	5 °C to 45 °C	5 °C to 45 °C	5 °C to 45 °C	5 °C to 45 °C	5 °C to 45 °C	5 °C to 45 °C	5 °C to 45 °C
Weight	180 kg	340 kg	300 kg	800 kg	600 kg	1500 kg	1350 kg

Walk-through Metal Detector

General Walk-through Metal Detector

- > Ultra-high detection sensitivity, and coin-sized metal can be detected
- Counts on flow and alarm events and displays the numbers on 7-inch LCD screen
- > Multi-location detection to accurately locate the metal position
- > Sensitivity adjustment for each zone
- > Networking with HikCentral Professional Platform for area flow analysis
- > Supports network configuration and remote control
- > 2 Relay alarm outputs

Temperature-screening Walk-through Metal Detector

- > Thermal based real-time skin surface temperature screening, timely alarm for abnormal temperature
- > Real-time display of temperature screening and visible light image via LCD displays
- > Touch screen for easy management
- > Counting on flow and alarm events
- > 18 zones accurate metal detection
- > Work with HikCentral Professional for remote configuration and area flow analysis



Model	ISD-SMG1118L	ISD-SMG1112L	ISD-SMG106	NP-SG333L	ISD-SMG318LT-D
lmage					
Temperature Screening via Thermal Camera	No	No	No	No	Accuracy: ± 0.5 °C
Both Ferrous and Non-ferrous Metal Detection	Yes	Yes	Yes	Yes	Yes
Smallest Metal Objects Detected	Coin-sized metals	Coin-sized metals	Coin-sized metals	Coin-sized metals	Coin-sized metals
Number of Detection Zones	18	12	6	33	18
Configuration Method	Remote controller/website	Remote controller/website	Keypad	Touch screen	Touch screen and website
Power Supply	100 VAC to 240 VAC, 50/60 Hz	100 VAC to 240 VAC, 50/60 Hz	100 VAC to 240 VAC, 50/60 Hz	12 VDC, 3.15 A, 36 W (with power adapter)	12 VDC, 3.15 A, 36 W (with power adapter)
Power Consumption	< 25 W	< 25 W	< 25 W	< 20 W	36 W
Operation Temperature and Humidity	Temp: -20 °C to 55 °C, < 95 % RH (non-condensing)	Temp: -20 °C to 55 °C, < 95 % RH (non-condensing)	Temp: -20 °C to 55 °C, <95 % RH (non-condensing)	Temp: -10 °C to 55 °C, < 95 % RH (non-condensing)	Turret camera: 5°C to 40°C, < 95 % RH Walk-through metal detector: -10°C to 55°C,< 95 % RH
Protective Level	IP41	IP41	IP41	IP52	Turret camera: IP66 Walk-through metal detector: IP53
Flow Control for Specified Area	Yes	Yes	No	Yes	Yes
Display Type and Size	7-inch LCD Display	7-inch LCD Display	LED Digital Tube Display	7-inch touch screen	7-inch touch screen
Display Information	Pass-Through Number Metal Alarm Number Signal Indicator Problem Status Time	Pass-Through Number Metal Alarm Number Signal Indicator Problem Status Time	Pass-Through Number Metal Alarm Number Signal Indicator Time	Pass Through Number Metal Alarm Number Security Level Frequency Time	Pass Through Number Metal Alarm Number Real-time Skin Surface Temperature Temperature Alarm Number Security Level Frequency Time
Sensitivity Levels	0 - 999	0 - 999	0 - 255	Security Levels: 0 to 100 Sensitivity: 0 to 255	Security Levels: 0 to 100 Sensitivity: 0 to 255
Number of Pre-loaded Settings	30 pre-loaded settings	30 pre-loaded settings	100 pre-loaded settings	72 pre-loaded settings	72 pre-loaded settings
Number of Custom Settings	20 custom settings	20 custom settings	O custom setting	18 custom settings	18 custom settings
Number of Working Frequencies Available	20 kinds of working frequency available	20 kinds of working frequency available	100 kinds of working frequency available	12 kinds of working frequency available	12 kinds of working frequency available
Support for Automatic Frequency Selection	Yes	Yes	No	Yes	Yes
Visible and Audible Alarm	Yes	Yes	Yes	Yes	Yes
Number of IR Groups	2	2	2	2	2

Intelligent Security Inspection Analyzer

> Support the on-site transformation, and the signal of the security inspection machine is output directly. In the case of continuous power supply, the equipment supports ring connection, which will not affect the on-site use.





Model	ISD-ST204D-DHV
lmage	
Analyzation Channel	1 channel Front angle of view, 1 channel side of view
Prohibited Goods Type	Scissors, knives, spray irrigation, liquid bottles, umbrellas, batteries, laptops, lighters and fireworks (Because each place contraband is different, the recognition effect can have difference)
Video Input	2 Groups VGA/HDMI
Video Output	2 Groups VGA/HDMI
HDD	Built-in 4 TB 3.5", SATA (12TB extendable)
Video Input	4-ch Network Camera
Network Interface	7, 10 M/100 M/1000 M Self-adaptive Ethernet Interface
Serial Port	2, Standard RS-485 full duplex serial port 2, Standard RS-232 full duplex serial port
Alarm I/O	Alarm Input: 2 ch Alarm Output: 2 ch
Dimension	440 mm x 89 mm x 345 mm (W x H x D)
Consumption	<30 W
Power	220 VAC
Operating Temperature	10 % to 90 % (No Condensation)
Operating Humidity	-10 °C to 55 °C
Weight	≤ 4 kg

Auxiliary Equipment

Model	NP-SE100H
lmage	The state of the s
Detectable Explosives	TNT, Rexogen, Tai'an, Nitroglycerin, Ammonium Nitrate, Black Powder, Dinitrotoluene, Tequila, Octogen, Gena, TATP, HMTD, C4, Semtin and home-made explosives, etc., and new samples can be added as needed.
Detectable Narcotics	Cocaine hydrochloride, heroin hydrochloride, tetrahydrocannabinol, methamphetamine (ice), ketamine hydrochloride (K powder), morphine hydrochloride, papaverine, ecstasy, dulantin and other common drugs on the market, and new samples can be added in system if needed.
Sensitivity	Pg level
Analysis time	≤3s
Start Time	≤ 13 min
False alarm rate	≤1 %
Language	English/Chinese
database	The open database can be updated at any time.
Sampling method	wipe sampling with test paper; Sniffing sample of trace particles optional
Detection target types	Both explosives and drugs
Mixture detection	It has the function of principal component detection and the mode of mixture component detection.
Alarm method	With sound, light, character lamp alarm display, alarm mode selection switch, optional sound and light alarm, or hidden alarm mode
weight	Less than 4.0 Kg
size	470 mm (width) \times 170 mm (length) \times 200 mm (height)
battery	Working time > 2 hours, standby time > 12 hours
power supply	Adapter: AC110V/220V AC, 50-60Hz
adapter	Output 19V/10.5A
Working/storage temperature	-20 °C to 60 °C
Working/storage humidity	<95 %
working pressure	60 kPa - 106 kPa

Model	ISD-SL300T
lmage	
Technology	Ultra wideband pulse microwave reflection method
Detectable liquid	More than 40 kinds of inflammable and explosive liquids, including gasoline, kerosene, diesel, ether, isopropyl ether, ligroine, acetonitrile, ethylene glycol, nitrobenzene, propylene oxide, heptane, turpentine, acetone, benzene, methylbenzene.
Boot duration	1 s
Detection and analysis time	Less than 2s
Detectable container material	Plastic, glass, ceramics, aluminum cans, iron cans
Detectable container size	Minimum height: 6 cm (2.36") Minimum volume: 100 ml
Alarm method	Visual, audible and LED display
Storage	Stores more than 10,00000 detection results and exports data via USB interface
Dimension (W × H × D)	400 mm × 330 mm × 185 mm [157.48" × 129.92" × 72.83"]
Weight	≤5 kg (11.02 lb)
Maximum power consumption	< 50 W
Display	Self-luminous LED screen
	Language: English
Woring temperat-ure/ humidity	Temperature: –10 °C to 45 °C (14 °F to 131 °F
	Humidity: 0 % to 90 %
Working voltage	Input: 100 VAC to 240 VAC, 50 to 60 Hz
	Output: 5 V/2.1 A
Atmospheric Pressure	86 kPa to 106 kPa

Model	NP-SD100		
lmage			
Alarm	Sound & Light		
Load bearing	300 KG		
Net Weight	1.7 KG		
Size	396 mmL × 295 mmW × 95 mmH		
Power	12V DC		
Current	110 mA		
Working Power rate	≤2 W		
Standby power rate	≤1 W		
Working temperature	-5 °C to 50 °C		
Packing weight	5.7 KG		
Metal coin D=25mm	<35 mm		
USB flash disk	<20 mm		
No. 8 detonator	<30 mm		
Knife	<100 mm		
Lighter	<25 mm		
Bullet head	<25 mm		
5AA battery	<60 mm		
Utility knife	<50 mm		

NP-SD100	Model	NP-SH100
The state of the s	lmage	BERNNER
Sound & Light	Power Supply	Standard 9 V (6F22) battery
300 KG	Operating frequency	25 kHz
	Operating Voltage	9 V (6F22)
1.7 KG	Drop-proof	1 m
396 mmL × 295 mmW × 95 mmH	Working Temperature	-20 °C to 55 °C
12V DC	Dimension (W × H × D)	410 × 45 × 85 mm
110 mA	Weight	400 g (without battery)
≤2 W	Accessories	Rechargeable battery, Charger
≤1 W	Model	FBG-2-320-SP00
-5 °C to 50 °C		
5.7 KG	Image	
<35 mm		A
<20 mm	Ball Inner	750 mm
<30 mm	Diameter Tank Mouth	320 mm
	Diameter	920 IIIII
<100 mm	Explosion-proof Capability	2 Kg TNT Equivalent Weight
<25 mm	Cover open time	≤30 S
√25 mm	Total Weight	680 Kg

Dimension Dust-proof cover

Holding net

1100 mm (depth) x 920 mm (width) x 950 mm (height)

Included

Included



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