

# DHI-ISC-M6550

Intelligent Security Screening Machine



The intelligent security screening machine is a new security inspection device that uses X-ray to quickly inspect baggage and goods without opening packages.

#### **System Overview**

The machine adopts an advanced X-ray image detection system, which integrates semiconductor detectors, digital image processing technology and computer image display technology, to provide users with an efficient, reliable and high-quality image processing system that has service functions. The device has a large HDD capacity that can store massive high-definition images. It supports many functions. It recognizes prohibited objects, alarms when prohibited objects are detected and features person-package linkage, image enhancement, network expansion and interconnection, automatic detection and maintenance and more. In addition, the operation design is simple and user-friendly.

#### Functions

#### X-ray Package Image Rendering

Adopts the Dahua algorithm to generator images of packages and their content, displaying their shape and the materials that they are made of. The generatored images reflect X-ray absorption degrees and material composition. To better identify dangerous items, scanned objects will be categorized into organic matter, mixture and inorganic matter, and marked in orange, green and blue respectively according to their composition.

#### X-ray Package Image Enhancement

Adopts Dahua algorithm and enhances package images with different effects so that operators can better analyze the items. Enhancement functions include color/black and white, local enhancement, super enhancement, edge enhancement, image scanning, organic stripping, metal stripping, mixture stripping, Inverse, high-energy enhancement, low-energy enhancement, light, dark, density threat alert Z7/Z8/Z9, high density alert, Al overlay, vertical flip, pseudo color and more.

- Uses X-ray to generator images of packaged items passing on the con veyor belt, and checks the shape and size of packaged items.
- Displays images of the packages with enhanced effects, such as high energy enhancement, super enhancement, high density alert and image scanning.
- Supports security screening mode and video surveillance mode.
- Recognizes dangerous items such as knives, bottled liquid, spray cans, guns and lighters from scanned images.
- Set danger levels for suspect items and link alarms such as voice prompt, sound and light alarm and conveyor belt stopping.
- Displays AI overlay on suspected objects. The AI overlay box moves with the package.
- All detection results can be stored and generated as reports, which can be searched and exported according to danger level and time.
- 2 built-in cameras that respectively monitor the entry and exit of baggage and the package inspection process.
- Add IP camera and PoE camera for live video, storage and playback. The cameras monitors the entire security inspection.
- Alarms are triggered by system errors such as no HDD, storage error, IP conflict and MAC conflict.
- Supports HDD storage space management and advanced manage ment such as RAID configuration (RAID0/1/5); ensures data security.
- Supports user group management and multiple authorities setting; supports custom function, permission and password configuration.
- Supports system operation and maintenance management, such as self diagnosis, log and online user search, and device updating.

#### **Dual-screen Display Video Output**

Displays images in security mode (package images) or video surveillance mode.

#### **Dangerous Items Recognition**

Adopts the Dahua algorithm to analyze X-ray images of packages and identify dangerous items such as knives, bottled liquid, pressure tanks, guns and lighters. It also tracks dangerous items by using AI overlay which can be marked in different colors to indicate danger levels. Alarm linkage are supported such as voice prompt, sound and light alarm and conveyor belt stopping.

#### Person-package Linkage

Included are the entrance camera and exit camera. The system supports real-time recording, and offers person-package linkage storage and search.

## ISC-M Series | DHI-ISC-M6550

#### **Package Statistics**

All detection results can be stored and generated as reports, which can be searched and exported according to danger level and time.

#### **Continuous Scanning**

Continuously scans packages and displays their images even when the system restarts after being stopped.

#### **Safety Protection**

X-ray protection is higher than the international standard. The leakage dose is less than 0.9  $\mu\text{Gy}/h.$ 

#### Scene

It is suitable for baggage security screening inspection in airport, railway station, bus station, metro, rail transit, government building, exhibition center and large events.

#### **Technical Specification**

System		
CPU	Intel dual-core processor	
RAM	8 G	
Operating System	Embedded Linux OS	
User Interface	Local GUI (full functions); Web interface	
Basic		
Tunnels Size	650 mm × 500 mm (25.59" × 19.69")	
X-ray Tube Anode Voltage	160 kV	
X-ray Tube Cooling	Sealed oil bath with forced air	
Wire Resolution	Typical: 38AWG (0.1mm); Standard: 36AWG (0.13mm) *	
Penetration(steel)	Typical: 36 mm; Standard: 34 mm *	
Leakage Dose-rate	≤0.9 μSv/h (μGy/h)	
Noise Level	≤65 dB	
Conveyor Speed	0.2 m/s	
Conveyor Hight	approx. 665 mm	
Maximum Belt Load	170 kg (374.78 lb)	
Current Leakage	≤0.25 mA	
Film Safety	ISO 1600 (33 DIN)	
Intelligent Analysis		
Preview	Real-time display of X-ray package image and camera image; real-time item intelligent analysis	
Item Recognition	Recognizes items and displays AI overlay; the AI overlay box moves with packages	
Recognition Types	Recognizes 22 types of objects: Guns, fireworks, spray cans, knives, axes, scissors, lighter fluid, nail polish, bottled liquids, glass bottles, thermos bottles, plastic bottles, handcuffs, nightsticks, brass knuckles, lighters, tools, electronic products, mobile phones, powerbanks, laptops and umbrellas	
Danger Levels	High risk, warning, and safe (supports custom configuration according to types of objects)	
*Measured by Dahua Imaging	Test Kit	

Event LinkageI/O alarm, voice prompt, platform alarm and screen rottification can be triggered according to danger levelsImage StorageStores as much as 1 million images with information on original analyzed images can both be viewed.Baggage SearchSearch, play back, and export thegage lemages and linked viewed according to time, objects type and moreBackupCenerate and export reports according to time and object typesBackupUSV/NetworkPerformanceSearch, play back, and export hegage images and linked viewed.Self-inspectionAutomatically detects system failures and prompts error acidesImage ProcessingEnhancement functions include color/black and white, local enhancement, issuer enhancement, edge minacement, buyenergy enhancement, linker, 277,287,29, high density alert, Al overlay, vertical filip, pseudo color and moreImage PlaybackSupports playback of 30 imagesDevice DiagnosisSupports diagnosis of key components such as the detector, motor, IK sensor and special keyboardDevice DiagnosisSupports diagnosis of key components such as the center onfiguration (indeu Galya) configuration indeu Scalya) configuration indeu Scalya) configuration indeu Scalya) configuration (indeu Galya) configuration (indeu Galya) configuration indeu Galya) configuration (indeu Galya) configuration (indeu Galya) configuration (indeu Galya) configuration (indeu Galya) configuration (indeu Galya) configuration (indeu Galya) configuration			
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Emorgoncy Ston Button	Display Port	2-channel DVI outputs	
	Emergency Stop Button	3 (2 buttons on the machine body and 1 button on the operating keyboard)	

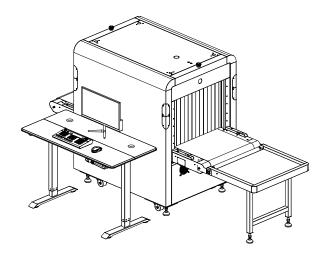
\*Measured by Dahua Imaging Test Kit

## ISC-M Series | DHI-ISC-M6550

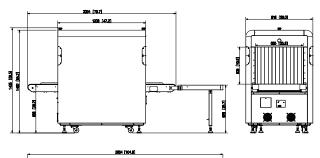
Power Button	1 (on the operating keyboard)	
Key Switch	1 (on the operating keyboard)	
Indicator Light	On the machine: Power indicator: Turns solid green when the machine is working and flashes during updates and when an error occurs X-ray indicators: Turn solid red when X-ray is triggered and turns off when X-ray is turned off On the operating keyboard: Key switch indicator: Turns solid green when the switch is turned on and turns off when the switch is turned off Power button indicator: Turns solid green when the power button on the operating keyboard is pressed on. Light turns off when the machine is powered off Press button indicators: Flashes green when one button is pressed on X-ray indicator: the red light is always on when X-ray is turned on, but not when X-ray is turned off	
Regular		
Power Supply	220–240 VAC, 50/60 Hz; 100–130 VAC, 50/60 Hz (optional)	
Typical Power Consumption	500 W	
Maximum Power Consumption	1 KW	
Intelligent Temperature Control	Detects the temperature of main board and HDD and automatically adjusts fan speed to make it work stably and quietly	
Operating Temperature	0 °C to +45 °C (32 °F to +113 °F)	
Operating Humidity	0%–95% (RH), non-condensing	
Storage Temperature	-20 °C to +70 °C (-4 °F to +158 °F)	
Storage Humidity	0%–95% (RH), non-condensing	
Dimensions	2,024.9 mm × 729 mm × 1,434.7 mm (79.72" × 28.70" × 56.48")	
Package Size	2,185 mm × 1,205 mm × 1,655 mm (96.26" × 45.20" × 65.63")	
Net Weight	460 kg (1,014.12 lb)	
Gross Weight	680 kg (1,499.14 lb)	
Installation Mode	Ground mount	
Control Console Package Size & Weight	1276 mm × 376 mm × 200 mm (50.24" × 14.80" × 7.87"), 38.5 kg (84.88 lb)	

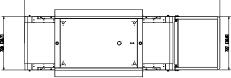
Ordering Information				
Туре	Model	Description		
Intelligent Security Screening Machine	DHI-ISC-M6550	Intelligent Security Screening Machine		
		21.5 inch LCD Monitor		
		out roller table		
		Special Keyboard, Mouse		
Control Console	DHI-ISC-MCC01	Control Console		

#### Installation



### Dimensions (mm[inch])





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