

# SmartScan 6550

## X-ray Inspection System

**High-End image performance system with Advanced material identification ability :** With the dual-energy technology, the SmartScan X-ray security system can easily identify material and categorize it based on the arrangement : organic material (orange), inorganic (blue), mixture and lighter metal (green), which assists in detecting drug and explosive powder.

**Sharp objects and dangerous goods detection and alarm notification :** The ability to instantly detect sharp objects and dangerous goods and send alarm notifications on the monitor screen. Detection Sensitivity can be adjusted by operators anytime based on the standard safety requirement.

**High-Speed and real-time digital signal processing :** The process includes three phases : **Image recurrence** that displays the previous images and processes any one of them; **Image restoration** that restores image to initial status and **Image storage** that stores any image in real-time and processes it in operation status.

**Automatic high and Low penetration display :** High penetration display increases the contrast of the bright area in image to make the area that is easy to penetrate appear more clearly. Low penetration display increases the contrast of dark area in image to make the difficult-to-penetrate area appear more clearly.

**Super image enhancement with Edge enhancement :** The super image enhancement creates more distinct image detail, while the edge enhancement defines clearer edge and object contour.

**High resolution display 1920x1080 supported by 24-bit color real time image processing**

**Extended image features: Magnifier, Brightening / dimming**



### Special key features :

- \* **Network interface :** LAN support and able to perform multi-terminal check for baggage at the same time.
- \* **Safety x- ray control**
- \* **One-key shutdown control**
- \* **Environmental protection design**
- \* **Energy-saving design :** The conveyor belt can be set to automatically run only when object is present.
- \* **Easy learning and operation :** User-friendly interface.
- \* **Super large image storage :** 1,000,000 pictures in real time

**The SmartScan 6550** is one of high-end line of Parcel, Baggage, Luggage and Small Item Inspection Systems that meets and exceeds the needs of airports, stations, customs, ports, mailrooms, embassies, stadiums, exhibitions, courthouses, hospitals, prisons and other government as well as commercial locations with growing security needs.

The safety benefit features of the **SmartScan 6550** include Low X-ray leakage dose rate that assures safety of the operators and the public. All of the **SmartScan X-ray security system** is carefully engineered to reach the minimal X-ray leakage. The environment radiation dose rate around the device is close to the natural background and complies with all published National/International standards.

# Technical Data



## SmartScan 6550

### General Specifications

Tunnel size	650 (W) x 300 (H) [mm]
Conveyor Max Load	170 kg
Conveyor speed	0.22 m/s
Single inspection dosage	< 1.29µGy
Wire Resolution	0.0787 mm metal line (40AWG)
Penetration resolution	0.254 mm
Spatial Resolution	1.0 mm Horizontal, 1.0 mm Vertical
Steel Penetration	38 MM armor plate
Film Safety	For ISO 1600

### Image Performance System

Display	High resolution 1920x1080; 24-bit Color real time image processing
Monitor	22" LED Display
Edge enhancement	Object contour edge is more distinct
Super image enhancement	Image detail is more distinct
High penetration display	Increase the contrast of bright area in image to make the area that is easy to penetrate appear more clearly
Low penetration display	Increase the contrast of dark area in image to make the area that is difficult to penetrate appear more clearly
Magnifier	Partial magnifying function
Brightening/dimming	Increase/Decrease brightness of image
Image recurrence	Display the previous images and process each of them
Image restoration	Restore image to initial status
Image storage	Real-time store any image and process it in operation status

### Special Features

Network interface	Capable of connecting to LAN, and support multi-terminal check for baggages at the same time
Safety x-ray control	X-ray is transmitted under automatic control, avoiding error
One-key shutdown control	Just rotate the key to shut down the machine; it is safety, easy & convenient
Environmental protection design	Protective cover on lead curtain to avoid lead pollution
Energy saving design	the machine can check the tunnel automatically to see whether there are objects. The conveyor belt will run only when there is an object on it, otherwise it will not run
Easy learning & Easy operation	offer user-friendly interface
Super large Image storage	1,000,000 pictures in real time

### X-Ray Generator

Orientation	Diagonally Upward
Tube Current	0.4~1.2MA (adjustable)
Anode Voltage	100~160KV (adjustable)
Angle	60°
Generator cooling/working periods	Sealed oil bath with forced air/100%

### Operating Environment

Storage Temperature	-20°C to 60°C
Operating Temperature	0°C to 45°C
Relative Humidity	20 to 95% non-condensing
System Power	220 VAC (±10%) 50±3HZ
Power wastage	1.0 KW (Max)
Noise	<65DB

### X-RAY Sensor

L-shaped array detector 24bit

### Multi-energy

High/low energy Switch from high energy to low energy



Color material identification: Organic objects in orange, inorganic objects in blue, mixture in green Assist to detect drugs and explosives.



- Stringent quality control, double examination in engineering and production.
- International spare parts: USA Spellman Generator & Japan Hamamatsu Detector & German Interroll Roller



For detail inquiries, please contact :

#### PT. Professtama Teknik Cemerlang

Kompleks Golden Ville Blok 88DI, Jl. Daan Mogot Dua, Kapa Duri, Jakarta 11510 - Indonesia  
 Telp. +62-21-5671935 (hunting), +62-21-5641142 (direct)  
 SMS : +62 815 10 7575 15 | Whatsapp : +62 855 157 7676  
 Fax. +62-21-5671938  
 E-mail: info@professtama.com  
 website: www.professtama.com