



SIGMA
SECURITY SYSTEM

**X-RAY BAGGAGE SCANNER
NEXT GENERATION**

Si-9009

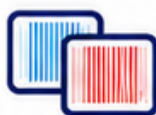
**ENGINEERED FOR
LARGE CARGO INSPECTION
SAFE & SECURE SCREENING**



**32 mm
STEEL
PENETRATION**



**250 KG
LOAD CAPACITY**



**DUAL ENERGY
DETECTOR**



**LOW X-RAY
LEAKAGE**



**1000 × 1000 mm
TUNNEL SIZE**



HIGH PENETRATION
Advanced Detection Capability



HEAVY DUTY PERFORMANCE
250 kg Load Capacity



LOW RADIATION
Safe Inspection Technology



DUAL ENERGY
Material Identification System



KOREAN TECHNOLOGY



www.wesigma.net



info@wesigma.net

Si-9009

FEATURES & TECHNOLOGY

The Sigma Si-9009 X-Ray Baggage Scanner is an advanced security inspection solution designed to deliver high penetration, accurate threat detection and superior image clarity. It is ideal for baggage, parcel and checkpoint screening in airports, government facilities, industrial sites and other high-security environments.



KEY FEATURES



DUAL ENERGY DETECTOR SYSTEM

Dual energy detection for better material discrimination and superior threat detection.



64x SMART ZOOM

64x adjustable zoom for detailed image inspection and analysis.



HIGH RESOLUTION IMAGE QUALITY

High resolution imaging with realistic color display for clear and accurate results.



HIGH PENETRATION CAPACITY

High penetration X-ray technology to detect dense and hidden prohibited items.



IMAGE STORAGE (100,000+)

Stores more than 100,000 images for future review and analysis.



DUAL 19" LCD MONITOR DISPLAY

Dual 19-inch LCD monitors for easy operation and better image viewing.



MULTI VIEW IMAGING

Multiple image views to improve detection accuracy and efficiency.



ADVANCED THREAT DETECTION

Enhanced image algorithms for automatic threat detection and material classification.



HIGH THROUGHPUT PERFORMANCE

Fast conveyor speed with high load capacity ensures smooth and efficient screening.

TECHNICAL SPECIFICATIONS

	Tunnel Size	: 1000 (W) × 1000 (H) mm
	Conveyor Speed	: Approx. 0.22 m/s
	Conveyor Belt Load Rating	: 250 kg (evenly distributed)
	Resolution	: Dia 0.101 mm Wire
	Spatial Resolution	: H.V : Dia 1.0 mm Dia 1.0 mm (Standard)
	Penetration	: Dia 0.160 mm / 34AWG
	Wire Penetration	: 33 - 38 mm Steel Plate (Adjustable)
	Beam Direction	: Bottom Beam
	Tube Voltage	: 160 KV (Adjustable)
	Tube Current	: 0.2 - 1.0 mA (Adjustable)
	Beam Angle	: 80°
	Cooling / Working Cycle	: Sealed Oil Bath Cooling / 100% Duty Cycle

CERTIFICATIONS & SAFETY



RADIATION SAFETY



LEAD CURTAIN PROTECTION



ELECTRONICS SAFE



FILM SAFE



LOW LEAKAGE DESIGN

RELIABILITY & CONSTRUCTION

- ✓ 100% Duty Cycle – Continuous operation, no need to warm up.
- ✓ Sealed Oil Bath Cooling – Stable performance with long service life.
- ✓ Industrial Fan Cooling – Efficient heat dissipation.
- ✓ Over Voltage Protection – Safeguards the system from voltage surges.
- ✓ Over Current Protection – Prevents overcurrent damage.
- ✓ Over Temperature Protection – Ensures safe and reliable operation.
- ✓ Analog Control Interface – Simple and reliable operation.
- ✓ High Speed Image Storage – More than 100,000 image storage capacity.

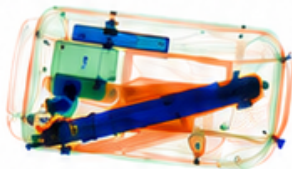
Si-9009

X-RAY BAGGAGE SCANNER

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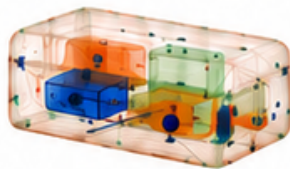


SCANNING EFFECTS



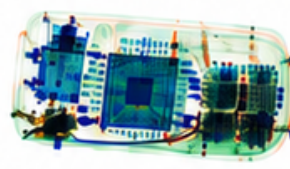
BAGGAGE INSPECTION

Clearly reveals concealed items inside luggage.



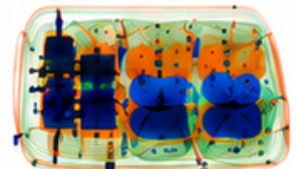
PARCEL INSPECTION

High penetration imaging for thorough parcel screening.



ELECTRONIC ITEMS

Displays internal structure of electronic devices.



CARGO & FREIGHT

Excellent imaging for cargo and freight inspection.

X-RAY GENERATOR

-  X-ray tube head: Sealed
-  Tube voltage: 160 KV
-  Tube current: 0.2 - 1.0 mA (adjustable)
-  Cooling type: Sealed oil bath cooling
-  Beam direction: Bottom beam
-  X-ray leakage: Less than 1 μ Gy/h (1m from the surface)

DETECTORS & IMAGE SYSTEM

-  Array detector: L-type photo-diode dual energy detector
-  Image storage: More than 100,000 images
-  Color: 4 colors imaging (4096 grey)
-  Smart zoom: 64x adjustable zoom preview window
-  Operating system: Windows 7 English
-  Back/forward: 30 images to process

INSPECTION PERFORMANCE

-  Noise: ≤ 48 dB
-  Max. load weight: 250 kg (551 lbs)
-  Conveyor speed: Approx. 0.22m/s
-  Steel penetration: 32 mm, typical
-  Conveyor height: 345mm (including the support)
-  Film safety: Guaranteed for high speed film up to ISO 1600 (33 DIN)

OTHER FUNCTIONS

-  TF functions: Administrator management of specific high density substances
-  Image output: Location pick out with USB interface

OPTIONAL FUNCTIONS

-  Special roller: Two side use ramp ensuring convenient and stable placement
-  Scan side: Double side (Bi-directional scanning optional)
-  Backup UPS: Support 15 minutes working (Optional)
-  3.04-35 rollers: 0.65 meter for the container (6 sets) (optional)

PHYSICAL DETAILS

-  Tunnel size: 1000 (W) $\times$ 1000 (H) mm
-  Consumption: < 0.5 kw/h
-  Net / Gross weight: 1100 kg / 1200 kg
-  Working temp: (-20) $^{\circ}$ C - (+60) $^{\circ}$ C
-  Humidity: 5% to 95%, non-condensing
-  Power supply: 110-240VAC, 50/60 $\pm$ 3Hz
-  Product dimension: 3040(L) $\times$ 1290(W) $\times$ 1917(H) mm
-  Package dimension: 2520(L) $\times$ 1500(W) $\times$ 2050(H) mm