



SIGMA
SECURITY SYSTEM

**X-RAY BAGGAGE SCANNER
NEXT GENERATION**

Si-4884

**ENGINEERED FOR
ACCURATE BAGGAGE INSPECTION
SAFE & SECURE SCREENING**



**38 mm
STEEL
PENETRATION**



**ASIC
DIGITAL
IMAGING**



**INTELLIGENT
IMAGE
PROCESSING**



**150 KG
LOAD
CAPACITY**



**650(w) × 500(H) mm
TUNNEL SIZE**



ACCURATE INSPECTION
High-resolution imaging



RELIABLE PERFORMANCE
100% duty cycle operation



INTELLIGENT SYSTEM
Real-time image processing



PROFESSIONAL SECURITY
Advanced baggage screening



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Si-4884

FEATURES & TECHNOLOGY

The Sigma Si-4884 X-Ray Baggage Scanner is designed to deliver advanced scanning performance, high reliability and superior image quality for effective threat detection in a wide range of security applications.

Ideal for hold baggage inspection, cargo and freight screening, customs and border control, and passenger, visitor and delivery checkpoints.



KEY FEATURES



MODULAR ARCHITECTURE

Internal circuit structure uses a modular design for improved anti-interference, stable operation and easy maintenance.



FULL DIGITAL ASIC DESIGN

Latest ASIC full digital hardware design and optimized analog acquisition for high integration, clear imaging and strong anti-interference.



INTELLIGENT RTOS PROCESSING

Integrates RTOS real-time image processing system for fast, stable and accurate scanning performance.



DANGEROUS GOODS AUXILIARY ALARM

TIP dangerous goods insertion with auxiliary alarm to assist operators in identifying potential threats quickly.



ONE-BUTTON AUTOMATION

One-button switch machine design with auto self-check, simplifying operation and improving work efficiency.



INFRARED ENERGY SAVING

Infrared energy-saving induction automatically activates/deactivates the system for energy efficiency and longer equipment life.



SELF-DIAGNOSTIC SYSTEM

Automatic fault self-test and real-time monitoring ensure reliable performance and minimal downtime.



PROFESSIONAL SECURITY KEYBOARD

Ergonomic, programmable security keyboard for fast, accurate and convenient system operation.



HIGH STABILITY & ANTI-INTERFERENCE

Advanced design ensures high stability, strong anti-interference and consistent performance in various environments.

TECHNICAL SPECIFICATIONS

 Tunnel Size: 650 (W) x 500 (H) mm	 Tube Voltage: 140 ~ 160 KV (Adjustable)
 Max. Load Weight: 150 kg (331 lbs.)	 Tube Current: 0.6 ~ 1.2 mA (Adjustable)
 Conveyor Speed: Approx. 0.22 m/s	 Cooling: Sealed Oil Cooling, Industrial Fan Cooling
 Steel Penetration: 38 mm Typical	 Work Cycle: 100%, No Need to Warm Up
 Space Resolution: Horizontal Φ1.0 mm Vertical Φ1.0 mm	 Power Supply: 210 ~ 230 VAC
 Control Interface: Analog Interface	 Product Dimension: 180 x 136 x 86 cm
	 Net / Gross Weight: 400 kg / 450 kg

CERTIFICATIONS



CE
(EMC, LVD)



FCC



RoHS



IP55
Protection

RELIABILITY & CONSTRUCTION

- ✓ Modular internal architecture for high stability and easy maintenance.
- ✓ ASIC full digital imaging platform for clear and reliable images.
- ✓ RTOS real-time image processing for fast and accurate performance.
- ✓ TIP dangerous goods insertion with auxiliary alarm.
- ✓ Remote management support for easy monitoring and control.
- ✓ Infrared energy-saving detection for efficient power management.
- ✓ Emergency alarm prompts for enhanced safety and response.
- ✓ Automatic fault self-test for system reliability and uptime.
- ✓ Professional security operator platform with user-friendly interface.

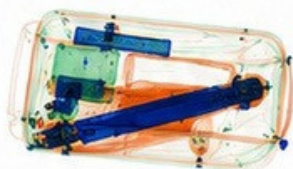
Si-4884

SCANNING EFFECTS & IMAGE PROCESSING

The Si-4884 delivers high-resolution imaging with advanced image processing algorithms to ensure excellent detection capability for a wide range of security threats including weapons, explosives, drugs and contraband.



SCANNING EFFECTS



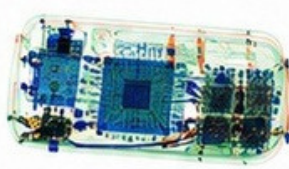
BAGGAGE INSPECTION

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.

DETECTION CAPABILITIES



FIREARMS & WEAPONS

Accurate detection of firearms and sharp objects.



EXPLOSIVES DETECTION

Identifies explosive materials and dangerous items.



DRUGS & NARCOTICS

Detects drugs and narcotics with high accuracy.



CONTRABAND ITEMS

Detects prohibited and contraband materials.



DENSE MATERIAL ANALYSIS

Penetrates dense materials up to 38 mm steel.

IMAGE PROCESSING FEATURES



HIGH CONTRAST ENHANCEMENT



ORGANIC / INORGANIC COLORIZATION



VARIABLE PSEUDO COLOR



HIGH / LOW PENETRATION



EDGE ENHANCEMENT



NOISE REDUCTION



ZOOM & MAGNIFICATION



IMAGE REVIEW & FAST BACKUP



Advanced image processing ensures clear, detailed and accurate visualization for quick and reliable threat identification.

OPERATING ENVIRONMENT



0°C ~ 40°C
Operating Temperature



10% ~ 90%
Operating Humidity



210 ~ 230 VAC
Power Supply



100%
Work Cycle (No Warm Up)



Sealed Oil &
Industrial Fan Cooling

SYSTEM HIGHLIGHTS

- ✓ High penetration power with excellent image clarity.
- ✓ Real-time imaging with advanced digital processing.
- ✓ Stable operation with 100% duty cycle.
- ✓ Modular design for easy maintenance and reliability.
- ✓ User-friendly interface for efficient operation.
- ✓ Comprehensive safety and protection functions.
- ✓ Remote management and fast image backup support.

APPLICATION SCENARIOS



AIRPORTS &
AVIATION SECURITY



CUSTOMS &
BORDER CONTROL



CARGO & FREIGHT
LOGISTICS



FACTORIES & INDUSTRIAL
SECURITY CHECKPOINTS



PUBLIC EVENTS &
VENUE SECURITY



GOVERNMENT &
MILITARY FACILITIES