



X-RAY BAGGAGE SCANNER
NEXT GENERATION

Si-7788

ENGINEERED FOR
ADVANCED BAGGAGE INSPECTION
SAFE & SECURE SCREENING



38 mm
STEEL
PENETRATION



DUAL ENERGY
DETECTOR



SMART IMAGE
PROCESSING



LOW X-RAY
LEAKAGE



500 × 300 mm
TUNNEL SIZE



HIGH PENETRATION
Advanced Detection Capability



RELIABLE PERFORMANCE
Industrial Duty Operation



LOW RADIATION
Safe Inspection Technology



DUAL ENERGY
Material Identification System



KOREAN TECHNOLOGY



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Si-7788

FEATURES & TECHNOLOGY

The Sigma Si-7788 X-Ray Baggage Scanner is designed for reliable baggage inspection, cargo screening, customs checkpoints, visitor screening, and security applications.

It delivers clear imaging, stable performance, and advanced detection capabilities for high-security environments.



KEY FEATURES



1. EASY OPERATION

- User-friendly interface
- Fast image processing
- Simple operator controls
- Efficient workflow



2. LOW X-RAY LEAKAGE

- Leakage less than 1 $\mu\text{Gy/h}$ per scan
- Safe for operators
- International compliance



3. HIGH IMAGE QUALITY

- Dual-energy imaging
- Organic / Inorganic separation
- High penetration capability
- Multiple image enhancement modes



4. REAL-TIME PROCESSING

- Up to 30 image storage processing
- Image review functions
- Zoom and enhancement tools



5. SELF-DIAGNOSTIC SYSTEM

- Built-in system monitoring
- Event logging
- Operational status tracking
- Easy maintenance



6. PROFESSIONAL SECURITY SCREENING

- Baggage inspection
- Cargo & freight screening
- Customs & border control
- Visitor checkpoint security

TECHNICAL SPECIFICATIONS

	Tunnel Size	500 x 300 mm
	Tube Voltage	100 kV
	Tube Current	0.2 - 1.0 mA Adjustable
	Conveyor Speed	Approx. 0.22 m/s
	Maximum Load	150 kg
	Steel Penetration	38 mm
	Wire Resolution	40 AWG
	Power Consumption	< 0.5 kWh
	Working Temperature	-20°C to +60°C
	Storage Temperature	-30°C to +70°C
	Humidity	5% - 95%
	Power Supply	110 - 240 VAC, 50/60 Hz
	Net Weight	280 kg
	Gross Weight	310 kg

CERTIFICATIONS

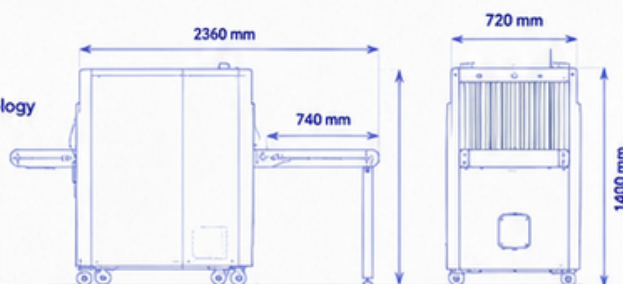


RELIABILITY & CONSTRUCTION

- ✓ Self-contained X-ray generator
- ✓ Sealed oil bath cooling system
- ✓ Array detector with dual-energy technology
- ✓ Real-time image processing
- ✓ High-resolution imaging
- ✓ System self-diagnosis
- ✓ USB image export support
- ✓ Stable industrial-grade design

OPTIONAL FEATURES

- ✓ Smart roller energy-saving system
- ✓ Audio liquid detection warning
- ✓ Backup UPS support
- ✓ Extended conveyor rollers



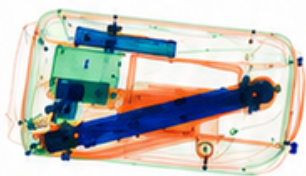
Si-7788

SCANNING EFFECTS & IMAGE PROCESSING

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SCANNING EFFECTS



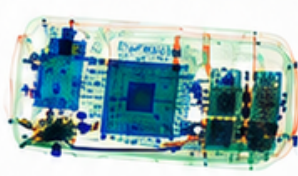
BAGGAGE INSPECTION

Clearly reveals concealed items inside luggage.



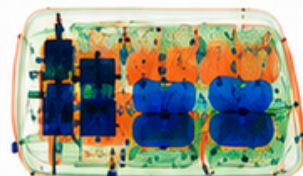
PARCEL INSPECTION

High penetration imaging for thorough parcel screening.



ELECTRONIC ITEMS

Displays internal structure of electronic devices.



CARGO & FREIGHT

Excellent imaging for cargo and freight inspection.

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



-20°C ~ +60°C
Operating Temperature



5% ~ 95%
Operating Humidity



110 ~ 240 VAC
Power Supply



< 0.5 kWh
Power Consumption



Sealed Oil & Industrial Fan
Cooling

SYSTEM HIGHLIGHTS

- ✓ High penetration power with excellent image clarity.
- ✓ Real-time imaging with advanced digital processing.
- ✓ Dual-energy system for material discrimination.
- ✓ 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