



ENGINEERED FOR
SAFE & SECURE SCREENING

Si-2024Z

WALK-THROUGH
METAL DETECTOR
NEXT GENERATION



DSP DIGITAL SIGNAL PROCESSOR

Advanced DSP processing provides greater sensitivity, noise immunity, metal discrimination and detection reliability.



MULTI-BRAND COMPATIBILITY

Integrates easily into existing security checkpoints with multiple channels and selectable operating frequencies.

24 Zone

IDEAL FOR



AIRPORTS



GOVERNMENT
BUILDINGS



DEFENSE
FACILITIES



EDUCATIONAL
INSTITUTIONS



EVENTS &
EXHIBITIONS



INDUSTRIAL
FACILITIES



INTERNATIONAL SECURITY STANDARDS

Meets the world's standard test certifications, including CE (EMC, LVD), ROHS, and FCC.



KOREAN TECHNOLOGY

Proudly engineered and manufactured in Korea.



GLOBAL SUPPORT

Reliable after-sales support wherever you are.



KOREAN TECHNOLOGY



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SIGMA
WALK-THROUGH METAL DETECTOR

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Si-2024Z

FEATURES & TECHNOLOGY

The Sigma Si-2024Z Walk-Through Metal Detector is a professional 24-zone security screening solution designed for precise threat localization, superior detection performance and reliable operation in demanding security environments.

Powered by advanced DSP processing technology and strong anti-interference capabilities, it accurately detects ferrous and non-ferrous metallic threats while ensuring efficient and dependable screening performance.



24
INDEPENDENT
DETECTION
ZONES

KEY FEATURES



DSP PROCESSING

Digital Signal Processor (DSP) based, offers greater sensitivity, noise immunity, metal discrimination, detection uniformity, and overall product reliability. Pinpoint targets the left, center and right side of the body from head to toe.



24 INDEPENDENT DETECTION ZONES

24 precise detection zones provide accurate localization of metallic objects across head-to-toe, allowing security personnel to quickly identify threat locations and improve screening efficiency.



MULTI-BRAND COMPATIBILITY

Can be added to existing security checkpoints without having to replace other existing units. Includes multiple channels and 100 selectable operating frequencies.



STRONG ANTI-INTERFERENCE PERFORMANCE

With advanced analogue and digital filtering, the device eliminates potential electrical interference from the environment to ensure detection accuracy.



IMPROVED COIL DESIGN

An improved coil design ensures the smallest metals are detected regardless of shape or orientation.



TAMPER-PROOF SECURITY

Double access protection. All settings are secured two levels of access codes, prevents unauthorized access to physical cables, connectors and electronics.

TECHNICAL SPECIFICATIONS

Sensitivity	0-199 Adjustable Levels
Detection Zones	24 Independent Zones
Protection Standard	IP55
Self Diagnostic	Automatic Upon Power On
Zone Sensitivity Boost	Adjustable In 6 Side Panels
Battery Backup	6-10 Hours Optional
Channel Dimensions	Width: 760 mm Height: 2050 mm Depth: 550 mm

External Dimensions	Width: 900 mm Height: 2240 mm Depth: 700 mm
Working Temperature	-20°C to +60°C
Storage Temperature	-40°C to +70°C
Humidity	5% to 95% Non-condensing
Power Supply	AC 110-240V, 50/60Hz
Frequency	99 Working Frequencies
Power Consumption	20W ±10%

CERTIFICATIONS



RELIABILITY & CONSTRUCTION

- ✓ Heavy-duty aluminum support structure
- ✓ Scratch-resistant laminate finish
- ✓ Automatic self-diagnostic system
- ✓ Strong anti-interference performance
- ✓ Dual-level tamper protection
- ✓ Two-year limited warranty



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Si-2024Z

APPLICATIONS, CERTIFICATIONS & SUPPORT

The Sigma Si-2024Z Walk-Through Metal Detector is designed to deliver accurate detection, reliable performance, and safe operation for a wide range of security environments. Built with advanced technology and international quality standards, it ensures complete peace of mind for security professionals and organizations worldwide.



IDEAL FOR



AIRPORTS

Reliable passenger screening for secure and efficient operations.



GOVERNMENT BUILDINGS

Enhances access control and ensures safety of staff and visitors.



DEFENSE FACILITIES

Provides advanced threat detection for high-security environments.



EDUCATIONAL INSTITUTIONS

Ensures a safe campus environment for students, faculty and staff.



EVENTS & EXHIBITIONS

Efficient screening for large crowds at public events and exhibitions.



INDUSTRIAL FACILITIES

Strengthens security in workplaces and high-risk industrial locations.

CERTIFIED FOR GLOBAL DEPLOYMENT



CE CERTIFIED

Complies with European EMC and LVD safety standards.



FCC COMPLIANT

Meets international electromagnetic emission requirements.



RoHS COMPLIANT

Environmentally responsible manufacturing standards.



IP55 PROTECTION

For moisture and foreign matter protection.

SAFE FOR EVERYONE



Cardiac Pacemaker Wearers



Pregnant Women



Magnetic Storage Media



High Volume Pedestrian Traffic



The Si-2024Z is designed to be completely safe for all individuals and everyday items, ensuring worry-free security screening in any environment.

BUILT FOR RELIABILITY. BACKED BY SUPPORT.



KOREAN TECHNOLOGY

Proudly engineered and manufactured in Korea using advanced security screening technology.



PROFESSIONAL SUPPORT

Dedicated technical support team providing reliable assistance whenever you need it.



QUALITY ASSURANCE

Rigorous quality control and testing ensure long-lasting performance and durability.



WARRANTY

Two-year limited warranty on parts and labor for complete peace of mind.

OPTIONAL ACCESSORIES



REMOTE CONTROL
Easy operation and settings adjustments from a distance.



BATTERY BACKUP
Optional 6-10 hour backup for uninterrupted operation.



ACCURATE DETECTION
Detects ferrous and non-ferrous metals including small objects.



HIGH PERFORMANCE
Stable operation with high immunity to environmental noise.



EASY OPERATION
User-friendly interface for quick setup and simple operation.



ROBUST DESIGN
Strong, durable and reliable for continuous heavy-duty use.