SIGMA
SECURITY SYSTEM

ENGINEERED FOR
SAFE & SECURE SCREENING

Si-2033EZ

WALK-THROUGH METAL DETECTOR
NEXT GENERATION



DSP

DIGITAL SIGNAL PROCESSOR
Advanced processing for reliable performance.

200 ADJUSTABLE SENSITIVITY LEVELS
Fine-tuned detection control to meet diverse security requirements.

33 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), ROSH, and FCC.

KOREAN TECHNOLOGY
Proudly engineered and manufactured in Korea.

GLOBAL SUPPORT
Reliable after-sales support wherever you are.

KOREAN TECHNOLOGY | www.wesigma.net | info@wesigma.net

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FEATURES & TECHNOLOGY

The Sigma Si-2033EZ Walk-Through Metal Detector is a high-performance security screening solution designed to deliver accurate detection, operational reliability and superior safety.

Engineered with advanced technology and intelligent features, it ensures effective threat detection, minimizes false alarms and adapts seamlessly to dynamic environments—making it the ideal choice for modern security operations.

KEY FEATURES

OPTIMUM PERFORMANCE

Scientifically engineered to meet the needs of airports, courthouses, prisons, schools, facilities, special events, mass transit, and other applications which need security inspection.

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.

PACING LIGHTS

The device also features pacing lights with symbols "Wait" or "Proceed" for precision.

DSP PROCESSING

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

TAMPER-PROOF

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

COIL DESIGN

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

STRONG ANTI-INTERFERENCE PERFORMANCE

With advanced analogue and digital filtering, the device eliminates potential electrical interference from the environment to ensure detection accuracy. This enables x-ray systems and the device to be placed in close proximity (30cm) to each other.

INTERNATIONAL SECURITY STANDARDS

Meets the world's standard certifications.

HEALTH CARE

The detector is harmless for cardiac pacemaker wearer, pregnant women, magnetic media, etc.

TECHNICAL SPECIFICATIONS

Zone Indications:	33 independent zones.
Sensitivity:	From 0-199, in total 200 adjustable sensitivity levels.
Channel Dimensions:	Width: 700 mm Height: 2100 mm Depth: 380 mm
External Dimensions:	Width: 820 mm Height: 2230 mm Depth: 450 mm
Door Frame Carton:	2230 x 450 x 450 mm
Main Frame Carton:	800 x 300 x 300 mm
Net/Gross Weight:	47 KG / 58 KG.

Working Temperature:	
Storage Temperature:	
	-40°C to +70°C
Humidity:	5% to 95% non-condensing.
Frequency:	99 different working frequencies.
Power Consumption:	20W ± 10%.
Zone Sensitivity Boost:	
External Power Supply:	AC 110-240V ± 20%, 50/60Hz.

Battery back (rɒvɪlɪnəbl):	
Weatherproofing:	Meets IP55, IEC Standard. For moisture and foreign matter protection.
Certificates:	CE, ROHS, FCC.
	2 years, limited parts/labor.
Self Diagnostic Program:	Complete and automatic when power is on.

CERTIFICATIONS

CE (EMC, LVD) · FCC · RoHS · IP55 Protection

RELIABILITY & CONSTRUCTION

- Over-head Control Unit: All electronics: LCD, alarm light, LED bar graph, control touch pads — integrated to eliminate wire exposure.
- Tamper-Proof Settings: Double access protection. All settings are secured by two levels of access codes.
- Construction: Scratch and mar-resistant laminate.
- Detection Heads and Support: Heavy-duty aluminum. Control Outputs: Solid state switches (low voltage AC or DC) for operating alarms and control devices.
- Alarm Indicators/Random Alarm Feature: 33 zones, volume-adjustable audible tone, bright LED visual. Random alarm feature.

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Si-2033EZ

APPLICATIONS, CERTIFICATIONS & SUPPORT

The Sigma Si-2033EZ Walk-Through Metal Detector is designed for high-accuracy detection with advanced technology, offering reliable performance, user safety, and easy deployment. Built with 33 detection zones and intelligent features, it ensures effective security screening in any environment.

33 ZONE

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
Meets IP55, IEC standard for moisture and foreign matter protection.

SAFE FOR EVERYONE

- Cardiac Pacemaker Wearers
- Pregnant Women
- Magnetic Media
- General Public

The Si-2033EZ 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.

DSP PROCESSING
Advanced DSP technology for higher accuracy, reliability and noise immunity.

ANTI-INTERFERENCE PERFORMANCE
Advanced filtering ensures accurate detection even in electrically noisy environments.

TAMPER-PROOF SETTINGS
Double access protection with two levels of secure access codes.

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

OPTIONAL ACCESSORIES



REMOTE CONTROL
Easy operation and setting adjustments from a distance.



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

ACCURATE DETECTION
Detects both individual and multiple metal targets with high accuracy.

HIGH PERFORMANCE
Stable operation with high immunity to environmental noise and interference.

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

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

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