



SIGMA
SECURITY SYSTEM

SI-2029PRO

High Precision Walk Through Metal Detector

Si-2029PRO

**HIGH PRECISION
WALK THROUGH
METAL DETECTOR
NEXT GENERATION**



DIGITAL SIGNAL PROCESSOR

Advanced processing for higher sensitivity, noise immunity, metal discrimination and reliable performance.



7-INCH HD LCD SCREEN

Clear, high-definition display for easy operation and real-time monitoring.

45 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

Si-2029PRO

FEATURES & TECHNOLOGY

The Sigma Si-2029PRO Walk-Through Metal Detector is a high precision security screening solution designed to deliver accurate detection, reliable performance, and safe operation across 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.



45
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.



45 INDEPENDENT DETECTION ZONES

45 independent zones provide accurate localization and precise identification of metallic objects across the body, allowing improved 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

	Zone Indications	45 Independent Zones
	Sensitivity	0-299 Adjustable Levels
	Channel Dimensions	Width: 715 mm Height: 2220 mm Depth: 650 mm
	External Dimensions	Width: 925 mm Height: 2430 mm Depth: 650 mm
	External Power Supply	AC110-240V $\pm$ 20%, 50/60Hz
	Battery Pack (Optional)	6-10 Hour Backup Available
	Self Diagnostic Program	Complete and Automatic When Power On
	LCD Screen	7-inch High-definition Resistive Screen (800x480 Resolution)

	Working Temperature	-20°C to +60°C
	Storage Temperature	-40°C to +70°C
	Humidity	5% to 95% Non-condensing
	Power Consumption	$\leq$ 20W $\pm$ 10%
	Detection Direction	Horizontal and Vertical Angles, Non-directional Detection
	International Standards	Meets World Standard Certifications
	Certificates	CE, FCC, RoHS
	Warranty	2 Years, Limited Parts/Labor

CERTIFICATIONS



CE



FCC



RoHS



IP55
Protection

RELIABILITY & CONSTRUCTION

- Scientifically engineered to meet the needs of airports, courthouses, prisons, schools, facilities, special events, mass transit, and other applications which need security inspection
- Scratch and mar-resistant laminate construction with heavy-duty aluminum detection heads and support
- Overall detection technology with no blind spot
- Low power consumption and stable operation
- Quick and easy installation
- Two-year limited warranty

Si-2029PRO

APPLICATIONS, CERTIFICATIONS & SUPPORT

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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.



IP43 PROTECTION

Protected against foreign objects >1.0 mm and vertical water droplets.

SAFE FOR EVERYONE



Cardiac Pacemaker Wearers



Pregnant Women



Magnetic Storage Media



High Volume Pedestrian Traffic



The Si-2029PRO 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.