SMD600 Plus

VERY HIGH PERFORMANCE ENHANCED METAL DETECTOR

TWO-IN-ONE METAL DETECTOR

- HIGH SENSITIVITY Fully compliant with the NIJ-0601.02 Law Enforcement Standard
- HIGH DISCRIMINATION Compliant with and Certified to the strictest Standards for Airport security screening

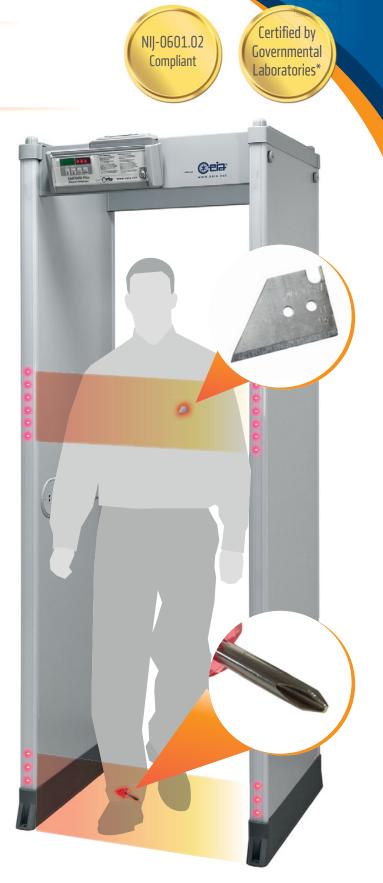
FEATURES

- Accurate Pinpointing of individual and multiple metal targets
- Exceptional Immunity to external interferences
- Unmatched Reliability
- Rapid Installation

*Data available upon request

Applications

- ✓ Correctional Facilities
- ☑ Law Enforcement
- ✓ Government Buildings
- Mirports
- ☑ Industries (Security)
- ✓ Nuclear Facilities (Security)
- ✓ Hospitals (MRI)
- ☑ Data Processing Centers





CEIA reserves the right to make changes, at any moment and without notice, to the models (including programming), their accessories and options, to the prices and conditions of sale

THE SMD600 PLUS IS THE FIRST METAL DETECTOR IN THE MARKET

FULLY COMPLIANT with the NIJ-0601.02 Standard, as required in **very high sensitivity** applications, which also allows **very high throughput** in high security public screening checkpoints

Fully compliant with the NIJ-0601.02 Standard



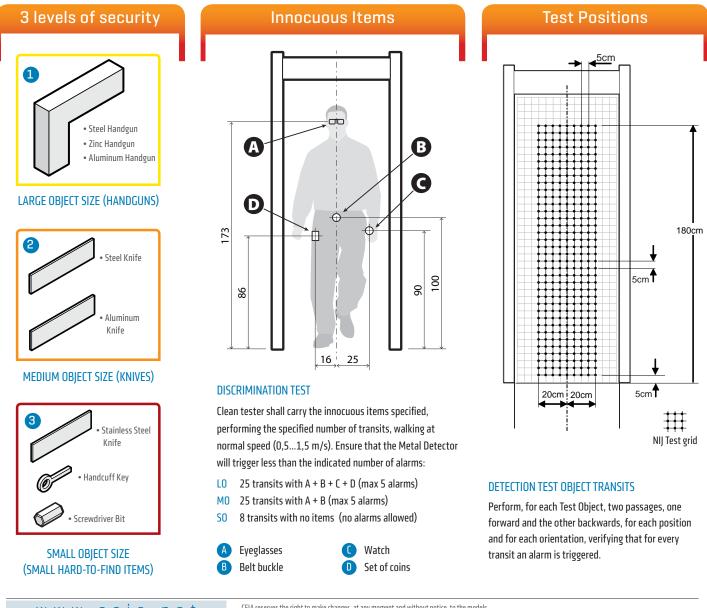
The Standard establishes the requirements of Sensitivity, Discrimination and Immunity for Law Enforcement and Correctional Facilities. The Standard defines 3 levels of security:

LO Level (Large Object Size)

2 MO Level (Medium Object Size)

3 SO Level (Small Object Size)

The SMD600 Plus Metal Detector fully complies with the requirements of the NIJ0601.02 Standard for all Security Levels, and can therefore be applied in situations from the inspection of visitors to that of inmates in top-security checkpoints, even in areas with strong electrical and mechanical interferences.



TWO-IN-ONE ENHANCED METAL DETECTOR

The **SMD600 Plus** is a very high sensitivity Metal Detector that also offers characteristics of high discrimination and high detection uniformity



- Quick, accurate analysis of all parts of the body of people in transit, from the shoe level to the crossbar
- Very accurate pinpointing of individual and multiple metal targets



- A full-height light bar displays the location of the detected metal masses in transit. This results in rapid identification of threats and a reduction or elimination of the need for manual searches.
- Built-in programs to screen visitors and staff for weapons and contraband



Very High Throughput

- UNMATCHED
- Cutting-edge discrimination technology allows personal effects to be ignored, creating rapid transit flow

The transit volume magnetic scanning system, invented by CEIA and applied since production of the first zonal Metal Detectors in 1986, allows state-of-the-art detection and discrimination results. The SMD600 Plus has an extremely low nuisance alarm rate even at the strictest Security Levels requested today, and therefore allows high transit flow rates and the minimum need for intervention by inspection personnel.





Unique Alarm Signaling



 4 Multi-Zone Display Bars, each programmable as entry Stop/Go and/or local alarm indication

Accurate signaling is essential for best operation and flow management. The SMD600 Plus provides the user with fully-programmable signaling. Both entry-points can indicate with a high level of accuracy, even simultaneously, the areas of transit of the threats detected, and can also be configured as 'traffic lights' to control transits through the detector.

Flexible Acoustic Alarm Signaling System:

🗹 10 Continuous and Pulsed Tones 🛛 🗹 34 Special Sounds



10 Acoustic Intensity Levels

A complete acoustic alarm system allows personalization of the alarm tones and intensities, with a wide choice of continuous, pulsed and special tones at different levels of intensity. The wide volume control dynamic allows operation even in very noisy environments.

Most Powerful and Versatile Security Features



Up to 50 built-in Security Programs

☑ Up to 30 International Standards ☑ Up to 20 Customizable Levels

Setting the Security Levels could not be easier and more versatile than in the SMD600 Plus. Users can choose directly from the known International Standards or request implementation of a Standard personalized to their own requirements. Users can also create their own work program and save it in internal memory provided for the purpose.



- Chip Card system for fast, simple and secure parameter changes (i.e. alarm volume and tone, counter reading, etc...) and security level selection
- Any security standard can be enhanced with selectable random alarm probability

SMD600 PLUS Meteri Detector

High Precision Transit Counter

The Metal Detector provides an automatic

access point in both directions and the related

count of the people passing through the

Automatic Compensation for

repeated transits of the same

4-beam very high

precision transit

available for enhanced

performances (option)

counter is also

nuisance alarm percentage.

☑ In-Bound Transits

☑ Out-Bound Transits

🗹 Alarm Rate

person

CHIP CARD SYSTEM

Chip Card for automatic selection of Security Levels and parameter changes.

	NETWORK		INFRARED REMOTE CONTROL	BLUE	тоотн
TYPE OF OPERATION	Ethernet	USB	Infrared	Bluetooth	RS-232
Maintenance	О	0		•	
Remote Control	О			•	-
Remote Data collection	О				
	STANDARD	O OPTION		·	<u>.</u>

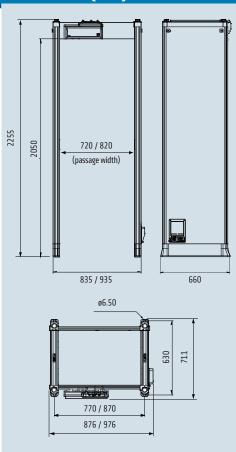
Communication Capabilities

Model Configuration

Features	SMD600 Plus/PZ
Fully compliant with, and exceeding, the NIJ-0601.02 Standard	-
Very high throughput in high security public screening checkpoints	-
4 display bars each programmable as zone indicators and/or pacing lights	-
Dual Side 20 x 2 localization zones	-
High precision transit counter (2-beam)	-
Chip Card Reader	-
Bluetooth, infrared and RS-232 communication	-
Programmable Random Alarm capability	-
3-Level Password and hardware key access protection	-
Met-Identity technology (separate Ferrous and Non-Ferrous alarm signaling)	•
One Touch Automatic Self Installation (OTS)	•
Automatic Operational Functional Verification (OFV)	•
Automatic Vibration Compensation (AVS, EVA)	•
Automatic Channel Search (CS)	•
Automatic Floor Gain Adjustment (FGA)	-
Automatic Technical Functional Verification (TFV)	-
Automatic Environmental Noise Compensation (ENA)	•
Powered by safe low voltage DC	-
Anti-tamper on/off switch	•
Integrated web-server & logger (includes Ethernet and USB interface)	0
Weather resistant protection	0
Anti-vandalism, anti-tampering protection (with IP65 control unit)	0
IP65 protection (IP65 control unit, IP67 power supply adapter, anti-vandalism protections, weatherproof gate structure, compliant with IEC 60950-22)	0
Embedded battery charger and under-voltage protection	o
Long life crossbar battery back-up	o
820 mm useful passage width	0
Very High precision transit counter (4-beam)	0

Dimensions (mm)

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UNDER THE ALARM THRESHOLD					
*	Small metal mass				

OVER THE ALARM THRESHOLD					
<u>**</u>	Medium metal mass				
***	Large metal mass				

Green and Red Metering Signals Proportional to the Metal Mass Detected

STANDARD O OPTION

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Options / Upgrade Kits

Weather Resistant Protection

Kit for upgrading the standard version to outdoor applications according to IEC 60950-22; this kit includes shelters, crossbars, protection covers for power supply and IP67 mains power supply adapter.

- 720 mm passage width (part # 55630)
- 820 mm passage width (part # 55633)

Anti-vandalism, Anti-tampering Protection

This option includes stainless steel control unit, IP67 mains power supply adapter, protection covers for power supply and antenna connection compartments, equipped with screws requiring tools for removal. Part # 55629



IP65 Protection

- This option includes the Weather Resistant and Anti-vandalism kits.
- 720 mm passage width (part # 55631);
- 820 mm passage width (part # 55632)

Long life crossbar battery back-up

Crossbar battery back-up in stainless steel case. Provides up to 8 hours of autonomous working time. Part # 55681

Embedded Battery Charger and Under-voltage Protection

Anti-tamper on/off switch, RS-232 interface, battery charger with 12 hours mains disconnection diagnostic alarm. Part # APSM2Plus/P

CE

Integrated Web-server & Logger, Battery Back-up and Charger

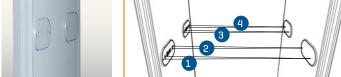
Anti-tamper on/off switch, RS-232, USB, 10/100 baseT Ethernet interface, data logger, real-time clock, integrated web-server, transit statistical data analysis, 20' internal battery back-up with 12 hours mains disconnection diagnostic alarm. Part # APSiM2Plus/P





Very High Precision Transit Counter

Four photocells fitted into the archway allow counting of transits, alarms and percentage of alarms. The 4-beam version further increases accuracy in counting and determination of transit direction, even in intense transit conditions. Part # 46112







820 mm Useful Passage Width Part # 55635

VISUAL ALARM WITH ZONE INDICATION

Accessories

> Chip Cards

Chip cards for simple and secure selection of Security Levels and parameter setting. List of chip-cards available on request.



► RCU2

MD-Scope

functionality.

Part # MD-SCOPE2

METAL BELONGINGS

Reference Test Samples

Control unit for full remote access, including alarm signalling and programming of CEIA Metal Detectors. Part # RCU2

Powerful, PC based installation

and service Software. Includes oscilloscope and terminal

 Metal Detector Divesting Table FOR MANAGEMENT OF PERSONAL

Standard length: 610 mm (Part # 18074)
Extended length: 1200 mm (Part # 39491)

WTMDs the same effect of the reference targets

and discrimination compliance verification.

classes detection capability verification.

of the disassembled guns Security Level.

CEIA provides certified Test Samples reproducing for shape, material and signal on

Part # NIJ-0601.02-SKN: complete test samples kit for NIJ-0601.02 detection

• Part # NIJ0601.02S0/M0-SK : test samples kit for NIJ-0601.02 M0 and S0

• Part # EMD-SK-GDM-FV: reference samples for accurate verification

RCLP Advanced Parenter Lots

• • P E

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► MBSU-2

Independent, compact size, long life power supply in weatherproof stainless steel case, with embedded fast charger:

- 25.5 hours typical (17.5 hours minimum) continuous operation with SMD600 Plus
- 5 hours typical charging time.

Part # MBSU-2



► IRC-1

Infrared Remote Controller for wireless remote programming of the control unit. Part # 47180

> Upper Connection Module

This extension cable allows the connection of power supply and serial communication to personal computers or CEIA accessories, such as RCU-2. Part # 46650

≻ RRU

Remote relay unit (RRU) to repeat the detection alarms of the gate through a relay contact. The RRU module can be used for integration of the Metal Detector in interlocked door systems.

Part # RRU

Waterproof Mains Power Supply

100W IP67 power supply for outdoor applications. It is provided with flanges for simple installation.

Part # 64609





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Specifications

KEY FEATURES	Very High Sensitivity	Automatic Technical Functional Verification (TFV)				
	Very High Discrimination	Automatic Environmental Noise Compensation (ENA)				
	Fully compliant with, and exceeding, the NIJ-0601.02 Standard	Met-Identity technology identifies and signals the metal type in real time				
	Very high throughput in high security public screening checkpoints	Random alarm capability programmable from 0% to 100%				
	20 x4 high precision localization zone x display bars	Exceptional Immunity to external interferences				
	One Touch Automatic Self Installation (OTS)	High precision bidirectional counter with automatic rescreening compensation				
	Automatic Operational Functional Verification (OFV)	Chip Card capability for fast, simple, and secure programming				
	Automatic Vibration Compensation (AVS,EVA)	Powered by safe low voltage DC				
	Automatic Channel Search (CS)	Standard Interfaces: RS-232, Bluetooth, Infrared				
	Automatic Floor Gain Adjustment (FGA)	Other available interfaces: Wi-Fi, Ethernet, USB				
QUALITY	Continuous self diagnostic system					
	Proven reliability					
	No periodic re-calibration and preventive maintenance required					
	No scheduled maintenance					
	Fully digital design					
WALK-THROUGH	State-of-the-art, robust and washable panels					
GATE STRUCTURE	Protected against aging, weather and wear					
CENTRAL	Ergonomic and robust design					
CONTROL UNIT	High visibility alphanumeric display and programming keyboard					
	Made of advanced plastics or stainless steel and anti-vandalism construction (option)					
	Access to the front panel protected by hardware key and 3 levels of passwords					
ALARM	VISUAL Multi-zone display bar for "height on person" localization					
SIGNALING	CICNIALC	4 light bars with selectable entry/exit and pacing indication				
		Green and red metering signals proportional to the mass of the detected target				
	· · · · · · · · · · · · · · · · · · ·	10 selectable continuous and pulsed tone plus 34 special tones				
		10 selectable continuous and pursed tone purs 54 special tones 10 selectable sound intensities ranging from 0 to 90 dbA at 1m				
ТҮРЕ						
OF SIGNALING	VISUAL Fixed or proportional to the mass in transit - visible from 6m under lighting of 400					
PROGRAMMING	VISUAL ZONE INDICATION 20 x4 distinct zones (20x2 entry side and 20x2 exit side) Up to 50 built-in security programs (up to 30 International Standards, up to 20 Customizable Levels)					
	Remote via RS-232, Infrared Remote Control Unit, Bluetooth tm or Ethernet 10/100 base T (option) interface					
	SECURITY LEVEL International Standard (IS) command					
	Chip card					
	Local by Control Unit alphanumeric display and keyboard					
	Programming and chip-card access protected by user and super-user passwords					
OPERATIONAL	Quick reset time as short as 0.2 seconds for high throughput rate					
FEATURES	Very high detection speed (up to 15 m/sec.)					
	Built-in operational and technical functional verification					
	One-touch key reading of inbound, outbound and Security Level Data					
INSTALLATION	Automatic synchronisation between two or more metal detectors with distance as close as 30 cm without					
DATA	the use of external cables					
	Built-in floor sensitivity adjustment function					
	Automatic Installation function (OTS)					

Environmental Data

• POWER SUPPLY : 100...240V~ -10/+15%, 47...63Hz, 40 VA max

(EEIZ

- OPERATING TEMPERATURE: -20°C to +70°C (-37°C to +70°C upon request)
- STORAGE TEMPERATURE: -37°C to +70°C
- RELATIVE HUMIDITY: 0 to 95% (without condensation)

Certification and Compliance

- Complies with the applicable Standards for Law Enforcement and Correctional Facilities
- Fully compliant with the NIJ-0601.02 Standard requirements
- Compliant with and certified to the applicable Standards for Enhanced Metal Detectors (EMD)
- Compliant with the applicable electromagnetic Standards on Human Exposure and Pacemaker Safety
- Compliant with applicable International Standards for electrical safety and EMC
- Harmless to magnetic media (CD, tapes, etc.)

Comprehensive support

CEIA PROVIDES FULL OPERATIONAL AND TECHNICAL TRAINING SUPPORT BY CERTIFIED PERSONNEL EITHER AT CEIA FACILITY OR AT CUSTOMER PREMISES

- phone technical support
- in-house and on-site repair/services
- standard and custom training





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