SMD600 Plus

VERY HIGH PERFORMANCE ENHANCED METAL DETECTOR

TWO-IN-ONE METAL DETECTOR

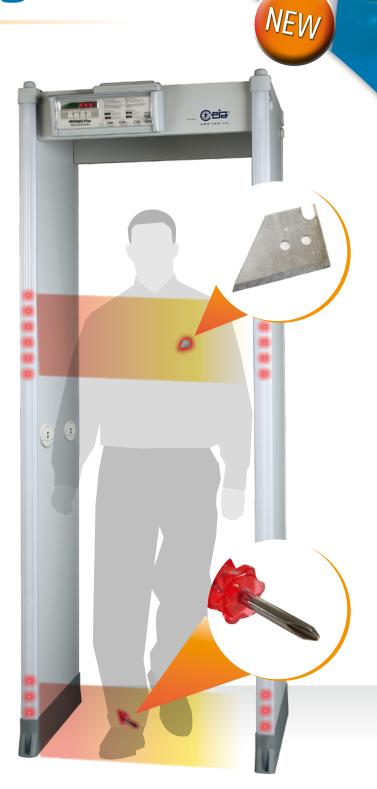
- Fully compliant with the NIJ-0601.02
 Law Enforcement Standard
- Very high discrimination and high throughput for public screening

FEATURES

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

Applications

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





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:

- 1 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.

3 levels of security



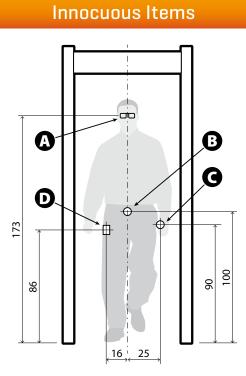
LARGE OBJECT SIZE (HANDGUNS)



MEDIUM OBJECT SIZE (KNIVES)



SMALL OBJECT SIZE (SMALL HARD-TO-FIND ITEMS)



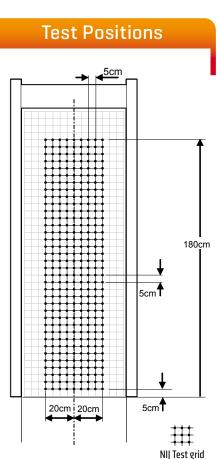
DISCRIMINATION TEST

Clean tester shall carry the innocuous items specified, performing the specified number of transits, walking at normal speed (0,5...1,5 m/s). Ensure that the Metal Detector will trigger less than the indicated number of alarms:

- L0 25 transits with A + B + C + D (max 5 alarms)
- M0 25 transits with A + B (max 5 alarms)
- S0 8 transits with no items (no alarms allowed)

A EyeglassesB Belt buckle





DETECTION TEST OBJECT TRANSITS

Perform, for each Test Object, two passages, one forward and the other backwards, for each position and for each orientation, verifying that for every transit an alarm is triggered.

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SMD600 Plus detects even the smallest metal items **anywhere on** and **in the body**.



 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



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-ofthe-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.



🗖 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

ALARM

NO ALARM





FIA SMD600 Plus Very High Performance Enhanced Metal Detector

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



🔼 CHIP CARD SYSTEM

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

Communication Capabilities

	NETWORK CONNECTION		INFRARED REMOTE CONTROL	BLUE	ТООТН
TYPE OF OPERATION	Ethernet	USB	Infrared	Bluetooth	RS-232
Maintenance	0	0			
Remote Control	0				
Remote Data collection	0				
	STANDARD	O OPTION			





☑ Out-Bound Transits 🗹 Alarm Rate

Automatic Compensation for repeated transits of the same person

High Precision Transit Counter

The Metal Detector provides an automatic count of the people passing through the

nuisance alarm percentage.

☑ In-Bound Transits

access point in both directions and the related



4-beam very high precision transit counter is also available for enhanced performances (option)

Model Configuration

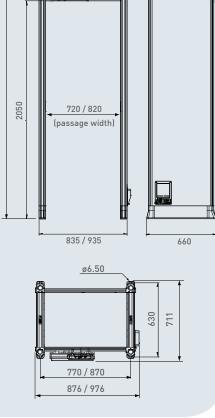
Features	SMD600/PZ Plus
Fully compliant with, and exceeding, the NIJ-0601.02 Standard	-
Very high throughput in high security public screening checkpoints	-
4 display bars each programmable as zone indicators and/or pacing lights	-
Dual Side 20 x 2 localization zones	-
High precision transit counter (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	0
IP65 protection (includes weather resistant and anti-vandalism options)	O
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

5

STANDARD O OPTION

Dimensions (mm) 2255 2050 720 / 820 (passage width)

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UNDER THE ALARM THRESHOLD				
* *	Small metal mass Medium metal mass			
OVER THE ALARM	1 THRESHOLD			

Green and Red Metering Signals Proportional to the Metal Mass . Detected

CEIA SMD600 Plus

Very High Performance Enhanced Metal Detector

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

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

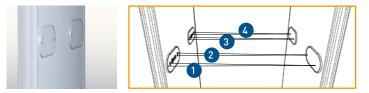
820 mm Useful Passage Width Part # 55635











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Accessories

> Chip Cards

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



► RCU2

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

► 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



MD-Scope

Powerful, PC based installation and service Software. Includes oscilloscope and terminal functionality.



VISUAL ALARM

WITH ZONE

RCU

Api

Part # MD-SCOPE2

205

mm

Metal Detector Divesting Table FOR MANAGEMENT OF PERSONAL METAL BELONGINGS

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

Reference Test Samples

CEIA provides certified Test Samples reproducing for shape, material and signal on WTMDs the same effect of the reference targets

- Part # NIJ-0601.02-SKN: complete test samples kit for NIJ-0601.02 detection and discrimination compliance verification.
- Part # NIJ0601.02S0/M0-SK : test samples kit for NIJ-0601.02 M0 and S0 classes detection capability verification.
- Part # EMD-SK-GDM-FV: reference samples for accurate verification of the disassembled guns Security Level.







> 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 # 43564



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

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CEIA SMD600 Plus

Very High Performance Enhanced Metal Detector

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 maintenan	ce 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						
ALARM	VISUAL Multi-zone display bar for "height on person" localization					
SIGNALING	SIGNALS 4 light bars with selectable entry/exit and pacing indication					
	Green and red metering signals proportional to the mass of the detected target					
	AUDIO 10 selectable continuous and pulsed tone plus 34 special tones SIGNALS 10 selectable sound intensities ranging from 0 to 90 dbA at 1m					
ТҮРЕ		in transit - visible from 6m under lighting of 4000lux				
OF SIGNALING	·					
PROGRAMMING						
TROUMAPIPING	RAMMING Up to 50 built-in security programs (up to 30 International Standards, up to 20 Customizable Lu Remote via RS-232, Infrared Remote Control Unit, Bluetooth tm or Ethernet 10/100 base T (option interface					
	SECURITY LEVEL International Standard (IS) comm	and				
	Chip card					
	Local by Control Unit alphanumeric display and keybo	Dard				
	Programming and chip-card access protected by user and super-user passwords					
OPERATIONAL	Quick reset time as short as 0.2 seconds for high thro					
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	· · · · ·					
DATA	Automatic synchronisation between two or more metal detectors with distance as close as 30 cm without the use of external cables					
	Built-in floor sensitivity adjustment function					
	Automatic Installation function (OTS)					

Environmental Data

()EB

- POWER SUPPLY: 100...240V~ -10/+15%, 47...63Hz, 40 VA max
- 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 the applicable electromagnetic Standards on Human Exposure and Pacemaker Safety
- Compliant with applicable International Standards for electrical safety and EMC
- Harmless to magnetic media (floppy disks, 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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