



SMD601 Plus

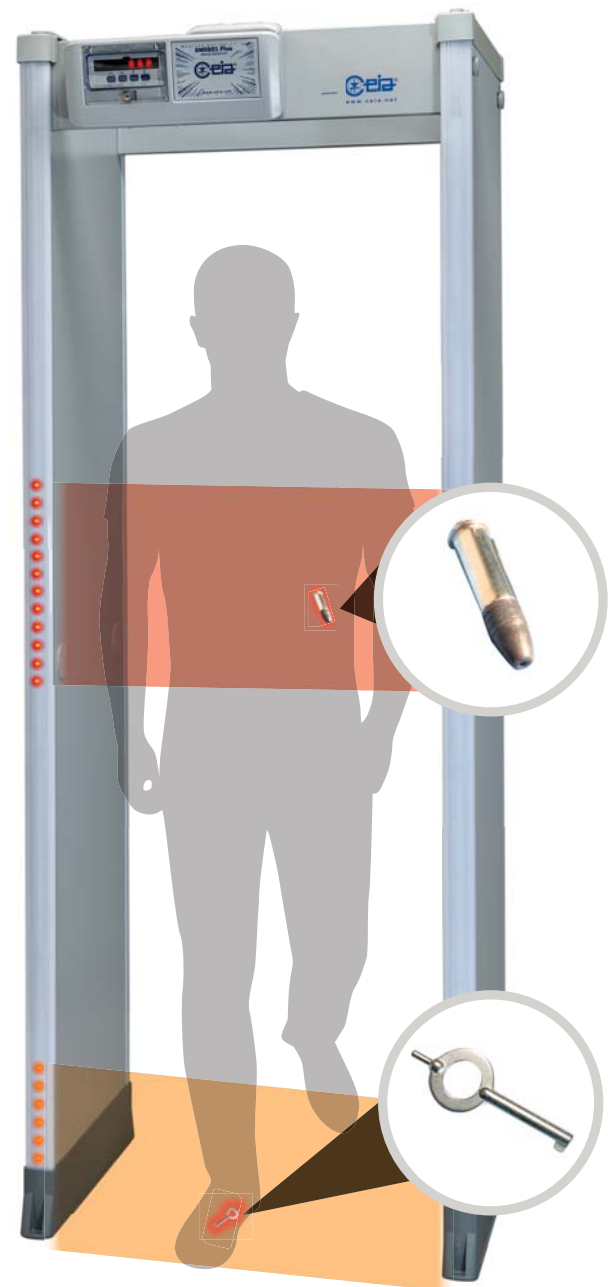
NEW CERTIFIED
IP66 CONTROL
UNIT

ANTI-VANDALISM
CONSTRUCTION

MOST SENSITIVE MULTI-ZONE METAL DETECTOR FOR LAW ENFORCEMENT AND CORRECTIONAL FACILITIES

REFERENCE STANDARD IN SENSITIVITY

- **MOST SENSITIVE WTMD**, fully compliant with the **NIJ-0601.02** and **NIJ-0601.03** Standards
- **QUICK, ACCURATE ANALYSIS OF ALL PARTS OF THE BODY** of people in transit, from the shoe level to the crossbar
- **ACCURATE PINPOINTING** of individual and multiple metal targets
- **EXCEPTIONAL IMMUNITY** to external interferences
- **NEW MECHANICAL STRUCTURE** with high protection degree
- **INTEGRATED CORRECTIONAL PROFILING SYSTEM** (optional)
- **UNMATCHED RELIABILITY**



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THREAT DETECTION THROUGH ELECTROMAGNETICS

The SMD601 Plus is a very high sensitive Walk-Through Metal Detector.

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.

SMD601 Plus detects even the smallest metal items **anywhere on or in the body.**



FULLY COMPLIANT WITH THE NIJ-0601.02 AND NIJ-0601.03 STANDARDS

The SMD601 Plus further extends the detection sensitivity of the previous SMD601 to metal threats before considered undetectable due to their minimal dimensions and metal composition similar to the ones specified in the new **NIJ-0601.03 Standard**:

1

- STEEL HANDGUN
- ZINC HANDGUN
- ALUMINUM HANDGUN

LO LEVEL
LARGE OBJECT SIZE (HANDGUNS)

2

- STEEL KNIFE
- ALUMINUM KNIFE

MO LEVEL
MEDIUM OBJECT SIZE (KNIVES)

3

- STAINLESS STEEL KNIFE
- HANDCUFF KEY
- SCREWDRIVER BIT

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

SAME AS SMD601



- DISPOSABLE RAZOR BLADES
- SPECIAL METAL ITEMS (E.G. AISI 300 SERIES STAINLESS STEEL)
- BULLETS

ULTRA-HIGH SENSITIVITY CAPABILITY
(EXAMPLES OF ADDITIONAL DETECTABLE TARGETS)



ACCURATE DETECTION OF ALL METALLIC THREAT ITEMS

- Very accurate pinpointing of individual and multiple metal targets
- Quick, accurate analysis of all parts of the body of people in transit, from the shoe level to the crossbar
- Built-in programs to screen visitors and staff for weapons and contraband





UNIFIED CONSTRUCTION
FOR INDOOR AND
OUTDOOR USE



NEW CERTIFIED IP66 CONTROL UNIT ENCLOSURE

- Total compatibility with previous control units
- Robust structure through the use of high-performance polymers for the construction of housing
- Waterproof / Dustproof: IP66 compliant (IEC 60529)
- Exceptional impact resistance at low and high temperatures and resistance to corrosion from atmospheric agents
- Display made with specific polymer to improve the visibility of the LEDs by increasing the definition and clarity



UNIQUE ALARM SIGNALLING

- 20 vertical localization zones
- High visibility of the control unit and of the zone indication, independent from the operator position and the installation environment
- Flexible Acoustic Alarm Signalling System:
 - ▶ 10 Continuous and Pulsed Tones
 - ▶ 34 Special Sounds
- 10 Alarm Volume Levels
- High Precision Transit Counter:
 - ▶ In-Bound transits
 - ▶ Out-Bound transits
 - ▶ Alarm rate



MOST POWERFUL AND VERSATILE SECURITY FEATURES

- Over 40 built-in Security Programs
 - ▶ Up to 22 pre-programmed Security Programs
 - ▶ Up to 20 user programmable Security Programs
- 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

The system allows Security Management to **set the Security Level quickly, reliably** and without having to program the device in any way.



SMD601 Plus/PZ MODEL CONFIGURATION

STANDARD CONFIGURATION

Fully compliant with, and exceeding, the NIJ-0601.02 Standard	●
Additional Ultra-High Sensitivity (NIJ-0601.03 Standard)	●
2 display bars programmable as zone indicators and/or pacing lights	●
20 vertical localization zones	●
Specific Shoe Alarm color indication	●
Antivandalic and Antitampering IP66 control unit	●
High precision transit counter (2-beam)	●
Chip Card Reader	●
BT, 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)	●
OTS: One Touch Automatic Self Installation	●
OFV: Automatic Operational Functional Verification	●
AVS, EVA: Automatic Vibration Compensation	●
CS: Automatic Channel Search	●
FGA: Automatic Floor Gain Adjustment	●
TFV: Automatic Technical Functional Verification	●
ENA: Automatic Environmental Noise Compensation	●
Powered by safe low voltage DC	●
Anti-tamper on/off switch	●

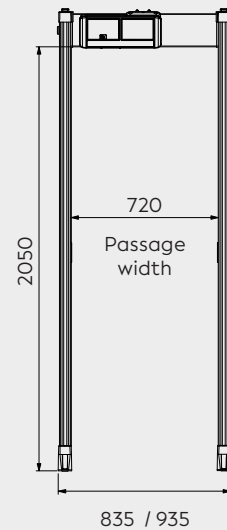
COMMUNICATION CAPABILITIES

TYPE OF OPERATION	ETHERNET	Wi-Fi	USB	INFRARED	BT	RS-232
MAINTENANCE	○	○	○		●	●
REMOTE CONTROL	○	○		●	●	●
REMOTE DATA COLLECTION	○	○				

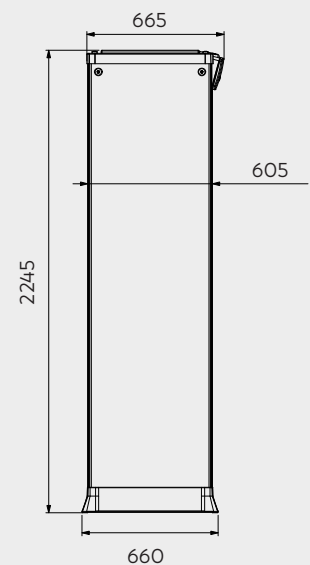
STANDARD ● OPTION ○

DIMENSIONS (mm)

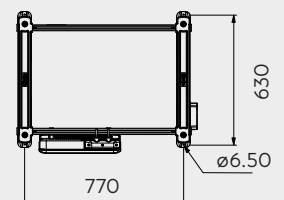
FRONT



LATERAL



TOP



CORRECTIONAL PROFILING SYSTEM (OPTION)



NIJ COMPLIANT SCREENING OF PEOPLE WITH OR WITHOUT IMPLANTED METAL OBJECTS

- 1** A profiled user presents their badge to the barcode reader.
- 2a** **THE USER TRANSITS THROUGH THE METAL DETECTOR**
The Metal Detector ignores profiled non-removable metal objects and does not alarm.
- 2b** **THE USER TRANSITS THROUGH THE METAL DETECTOR WITH A TARGET OBJECT**
The target is detected and the Metal Detector shows its position.

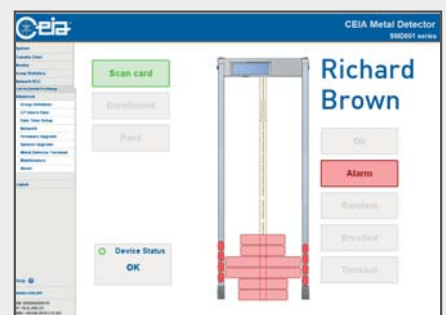
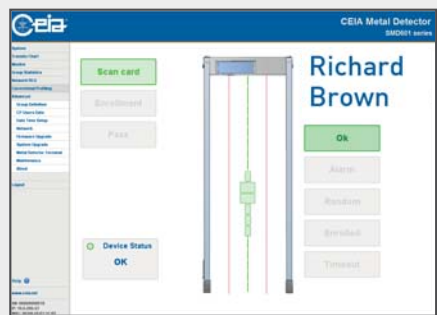


P/N: 99553
(RFID Reader Kit for profiling system)








P/N: 1D/2DREADER/P

This option requires the installation of the **APSiM3 Plus**, integrated web-server & logger.












**ALARM SIGNALLING
MAY BE SHOWN ON A PC
OR TABLET WEB BROWSER**



OPTIONS / ACCESSORIES

	DESCRIPTION		CODE
INTEGRATED CAMERA SYSTEM	Video camera with support arm and connecting cables. Installation of the APSiM3 Plus module is required.		54253
TDU Thermal Detection Unit	The TDU (Thermal Detection Unit) is an upgrade sensing kit for COVID screening compliance: <ol style="list-style-type: none"> 1 Thermal Camera Arm 2 Dual Reference Calibration Unit 		TDU/P
APSiM3 Plus Integrated Web-server & Logger, Battery Back-up and Charger	Lower Connection Module with anti-tamper on/off switch, RS-232 interface, internal battery back-up and the following functions: <ul style="list-style-type: none"> ▶ Built-in 10/100 base T Ethernet LAN interface ▶ Web server for set-up and remote data log ▶ Real/Time clock with battery backup ▶ Non-volatile Memory for Metal Detector events storage ▶ Wi-Fi communication capability ▶ Compatibility with NetID Management software [NetID software license not include] 		APSiM3Plus/P
EMBEDDED BATTERY BACK-UP AND CHARGER	Lower Connection Module with anti-tamper on/off switch, RS-232 interface and internal battery back-up. The module provides an audible 'flat battery' signal activated when the battery charge goes below the operational limit of the device (signal endurance: about 12 hours).		APSM2Plus/P
IP65 CONFIGURATION	Outdoor sheltered permanent or non-sheltered short-term installations (single event entrance). This kit includes shelters, and protection covers for power supply.		102710
CROSSBAR BATTERY BACK-UP	<ol style="list-style-type: none"> 1 Crossbar battery back-up in stainless steel case. Up to 4 h of autonomous working time. 2 Protection cover 		55681 Crossbar battery back-up with protection cover: 75122
CHIP CARDS	Chip cards for simple and secure selection of Security Levels and parameter setting. List of chip-cards available on request.		
MD-WHK	Wireless repeater of acoustic indications for WTMDs. Bluetooth audio function to be requested at WTMD ordering time.		MD-WHK

OPTIONS / ACCESSORIES

	DESCRIPTION		CODE
RCU2	Control unit for full remote access, including alarm signalling and programming of CEIA Metal Detectors. The connection is performed via serial cable connection or via BT [option].	 	RCU2
MD-SCOPE	Powerful, PC based installation and service Software. Includes oscilloscope and terminal functionality. The connection is performed via BT [standard] or via cable connection.		MD-SCOPE2
SUPPLY UNIT SERIES	<ol style="list-style-type: none"> 1 MBSU LWSC (Light Weight Soft Case Version) 2 MBSU-2 3 TSU (Tactical supply unit) <p>Portable and compact battery back-up units and charger designed to supply DC voltage to CEIA equipment where mains is not available or as Uninterruptable Power Supply unit [UPS] in installations requiring continuous operations.</p> <p>TYPICAL CONTINUOUS OPERATION</p> <ul style="list-style-type: none"> • MBSU-LWSC: 6 hr • MBSU-2: 6 hr • TSU: 4 battery pack: 4.5 hr / 6 battery pack: 6.5 hr / 8 battery pack: 9 hr 	<ol style="list-style-type: none"> 1  2  3  	<p>MBSU-LWSC</p> <hr/> <p>MBSU-2</p> <hr/> <p>TSU</p>
METAL DETECTOR DIVESTING TABLE	<p>In combination with CEIA Walk-Through Metal Detectors, it is a temporary location of personal metal effects for people to be screened:</p> <ol style="list-style-type: none"> 1 Standard length: 610 mm 2 Extended length: 1200 mm 3 Outdoor version: 1300 mm 	<ol style="list-style-type: none"> 2  	<ul style="list-style-type: none"> • STANDARD: 18074 • EXTENDED: 39491 • OUTDOOR: 67021
IRC-1	Infrared Remote Controller for wireless remote programming of the control unit.		47180
UPPER CONNECTION MODULE	This module along with an extension cable allows the connection of power supply and serial communication to personal computers or CEIA accessories, such as RCU-2.		<ul style="list-style-type: none"> • 46650 • 180 mm: 89040 • 5 m: 95352
TOP POWER CABLE	This cable allows the AC/DC adapter to be connected to PS/COM port located on top of the TX antenna to supply the Metal Detector Gate.		<ul style="list-style-type: none"> • 10 m: 64228 • 20 m: 68346
REFERENCE TEST SAMPLES	CEIA provides certified Test Samples reproducing for shape, material and signal on WTMDs the same effect of the reference targets.	 	<ul style="list-style-type: none"> • NIJ-0601.02-SKN • NIJ0601.02SO/MO-SK • EMD-SK-UHS-PR1/2

SPECIFICATIONS

GATE STRUCTURE	State-of-the-art, robust and washable panels
	Antivandalic and antitampering IP66 control unit
	Embedded high precision transit counters (2-beam photocells)
	Antitampering ON/OFF switch
	Protected against aging, weather and wear
OPERATIONAL FEATURES	High discrimination and transit flow rates five or more times greater than other metal detection systems
	Quick reset time as short as 0.2 seconds for high throughput rate
	Very high detection speed (up to 15 m/sec.)
	Built-in operational functional verification (OFV)
	One-touch key reading of inbound, outbound and Security Level Data
QUALITY	Continuous self diagnostic system
	Proven reliability
	No periodic re-calibration and preventive maintenance required
	No scheduled maintenance
	Fully digital design
ALARM SIGNALLING	Multi-zone display bar for "height on person" localization
	20 vertical localization zones
	2 display bars programmable as zone indicators and/or pacing lights
	Specific shoe alarm color 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 sound intensities ranging from 0 to 90 dbA at 1m
Random alarm capability with independent counters, alarm tone and alarm volume	
	Met-Identity technology (separate Ferrous and Non-Ferrous alarm signaling)
TYPE OF SIGNALLING	Fixed or proportional to the mass in transit - visible from 6m under lighting of 4000lux
	20 x4 distinct zones (20x2 entry side and 20x2 exit side)
PROGRAMMING	Over 40 built-in Security Programs
	Remote via Infrared Remote Control Unit, BT 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
INSTALLATION DATA	Automatic synchronisation between two or more metal detectors with distance of down to 5 cm without the use of external cables
	One Touch Automatic Self Installation (OTS)

CERTIFICATION AND COMPLIANCE

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

ENVIRONMENTAL DATA

- Powered by safe low voltage DC through external switching power supply adapter
- Power Supply : 100...277V~ ±10%, 47...63Hz, 50 VA typical consumption
- Operating temperature: -20°C to +65°C [-37°C to +70°C upon request]
- Storage temperature: -37°C to +70°C
- Relative humidity: 0 to 95% (without condensation)

COMPREHENSIVE SUPPORT

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



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