



SMD601 Plus

The most Sensitive Multi-Zone Metal Detector for Law Enforcement and Correctional Facilities



**NEW
REFERENCE STANDARD
IN SENSITIVITY**

- Most Sensitive WTMD, fully compliant with the NIJ-0601.02 and NIJ-0601.03 Standards
- Very Accurate Pinpointing of individual and multiple metal targets
- Exceptional Immunity to environmental interferences
- Unmatched Reliability



Phone: +39 0575 4181 Fax: +39 0575 418298 e-mail: infosecurity@ceia-spa.com

www.ceia.net

Threat Detection through Electromagnetics

SMD601 Plus

Most Sensitive Multi-Zone Metal Detector



Most Sensitive Multi-Zone Metal Detector

The SMD601 series Walk-Through Metal Detectors include two distinct models, **SMD601** and **SMD601 Plus**

Both of them comply with the strictest Law Enforcement Standard for WTMDs (i.e. NIJ-0601.02). The well know SMD601 model is the best high sensitivity equipment today available in the market and it has been selected and adopted by the most prestigious Law Enforcement Institutions.

The new SMD601 Plus further extends the detection sensitivity of the SMD601 to metal threats previously considered undetectable due to their minimal dimensions and metal composition as the ones specified in the new NIJ-0601.03 Standard.

Fully compliant with the NIJ-0601.02 and NIJ-0601.03 Standards

SMD601 model



- Handgun Zn
- Handgun St
- Handgun Al

NIJ-L0 level

LARGE OBJECT SIZE (Handguns)



NIJ-M0 level

MEDIUM OBJECT SIZE (Knives)



NIJ-S0 level

SMALL OBJECT SIZE (small hard-to-find items)

SMD601 Plus model



same as SMD601

Plus



- Disposable Razor Blades
- Special metal items (e.g. AISI 300 series Stainless Steel)
- Firearms bullets

Ultra-High Sensitivity capability
(examples of additional detectable targets)

The Reference Standard in Detection Capability

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

The SMD601 Plus is a very high sensitive Walk-Through Metal Detector. **An absolute must when the detection of extremely small metal masses is required** on the body or even if hidden in body cavities.

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.**



HIGH RESOLUTION
AND PRECISION

- Very accurate pinpointing of individual and multiple metal targets



VERY HIGH
SENSITIVITY

- Quick, accurate analysis of all parts of the body of people in transit, from the shoe level to the crossbar



SECURITY LEVELS

- Built-in programs to screen visitors and staff for weapons and contraband

Advanced Alarm Indication



PROGRAMMABLE
DISPLAY BARS

- Entrance and Exit Multi-Zones Display Bars each programmable as entry pacing and/or localization lights



FLEXIBLE
SOUND SYSTEM

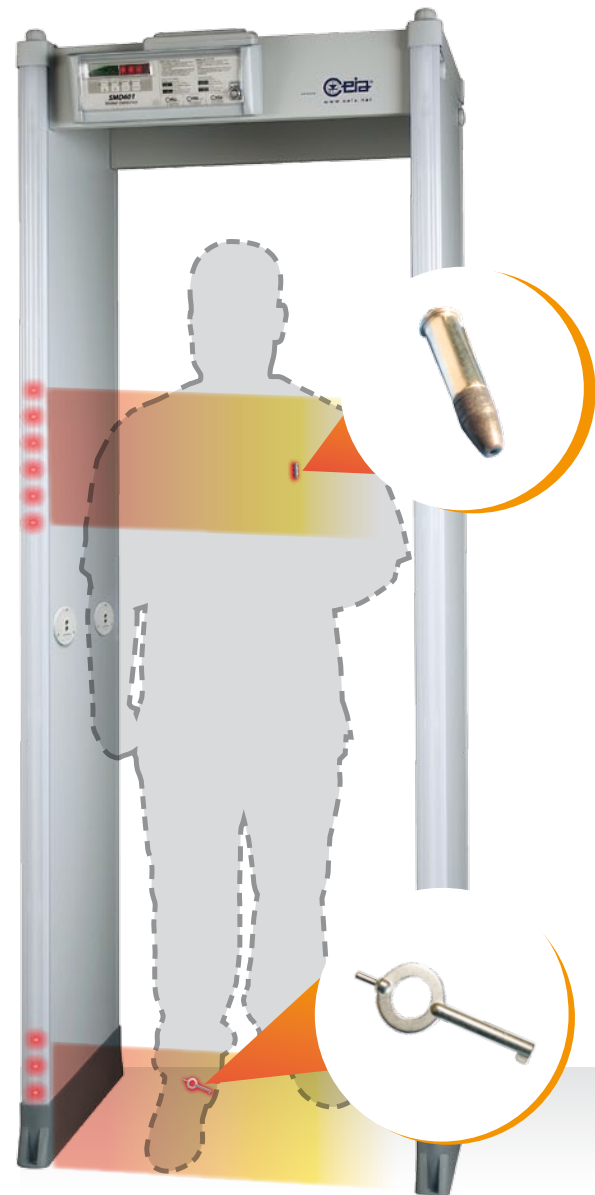
- Flexible Acoustic Alarm Signaling System:
 - ✓ 10 Continuous and Pulsed Tones
 - ✓ 34 Special Sounds
- 10 Acoustic Intensity Levels programmable from 0 up to 90 dBA at 1 m



BIDIRECTIONAL
COUNTER

- High Precision Transit Counter:
 - ✓ In-Bound Transits
 - ✓ Out-Bound Transits
 - ✓ Alarm Rate

An accurate and comprehensive alarm system allows the best use of Metal Detector. Optical indicators are fully programmable, both gate sides can indicate either separately or simultaneously vertical transit zones of detected threats and also be configured as traffic lights to regulate the access of the people being screened.



ENTRY PACING LIGHTS

SMD601 Plus

Most Sensitive Multi-Zone Metal Detector



Comprehensive 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

A feature of CEIA's Metal Detectors is a chip-card system that allows the Head of Security to set the Security Level quickly, reliably and discreetly, without any programming operation on the detector itself.



CHIP CARD FOR AUTOMATIC SELECTION OF SECURITY LEVELS AND PARAMETER SETTING

Communication Capabilities

TYPE OF OPERATION	Ethernet	Wi-Fi	USB	Infrared	Bluetooth	RS-232
Maintenance	○	○	○		●	●
Remote Control	○	○		●	●	●
Remote Data collection	○	○				

● STANDARD ○ OPTION

Exceptional Immunity and Reliability



INTERFERENCE IMMUNITY

- Exceptional Immunity to environmental interferences

CEIA SMD601 Plus Enhanced Metal Detectors offer such high immunity that they can be installed even in environments with high levels of electrical interference, impossible for conventional Metal Detectors.

Installation is also completely automatic thanks to an innovative, automatic verification and adjustment system that measures the electromagnetic interferences originating outside the device and determines the optimum setting for the specific environment.



SELF-DIAGNOSTIC SYSTEM

- Continuous self diagnostics assures monitored performance reliability



MAINTENANCE FREE

- No periodic re-calibration and preventive maintenance required

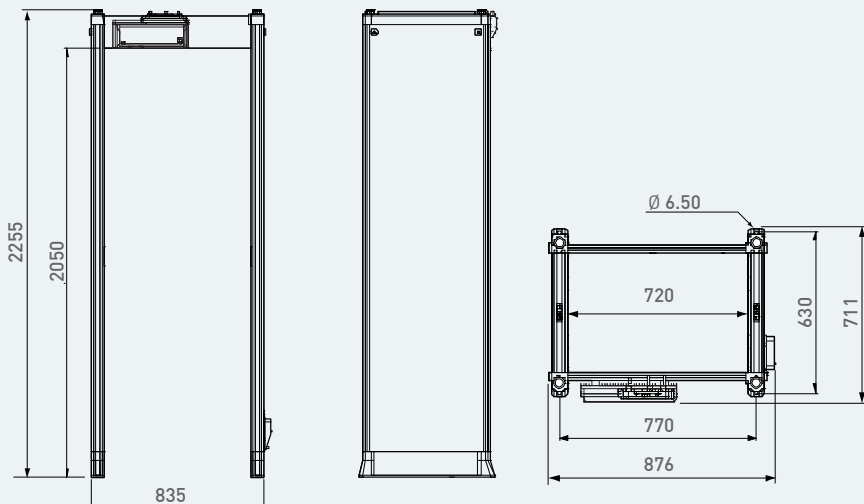
Model Configuration

Features	SMD601/PZPlus
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	●
Dual Side 20 localization zones	●
Powered by safe low voltage DC	●
Chip Card Reader	●
One Touch Automatic Self Installation (OTS)	●
Bluetooth, infrared and RS-232 communication	●
Password and hardware key access protection	●
Anti-tamper on/off switch	●
High precision transit counter	●
Programmable Random Alarm capability	●
Weather resistant protection	○
Anti-vandalism, anti-tampering protection	○
IP65 protection (includes weather resistant and anti-vandalism options)	○
Embedded battery charger and under-voltage protection	○
Integrated web-server & logger (includes Ethernet and USB interface)	○
Long life crossbar battery back-up	○
Integrated video camera (lobby applications)	○

● STANDARD ○ OPTION



Dimensions (mm)



VIEW OF THE SMD601 PLUS WITH ANTI-VANDALISM AND ANTI-TAMPERING PROTECTION OPTION

SMD601 Plus

Most Sensitive Multi-Zone Metal Detector



Options and 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 waterproof mains power supply adapter.

Part # 55630



ANTI-VANDALISM, ANTI-TAMPERING PROTECTION

This option includes stainless steel control unit, waterproof 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.

Part # 55631

LONG LIFE CROSSBAR BATTERY BACK-UP

Crossbar battery back-up in stainless steel case. Provides up to 6 hours of autonomous working time.

Part # 55681

UP TO 6 HOURS TYPICAL
CONTINUOUS OPERATION WITH
SMD601 PLUS



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, UNDER-VOLTAGE PROTECTION AND BATTERY CHARGER

Anti-tamper on/off switch, RS-232, USB, 10/100 baseT Ethernet interface, Wi-Fi, data logger, real-time clock, connectable to Net-ID centralized network management system, integrated web-server, transit statistical data analysis, battery charger with 12 hours mains disconnection diagnostic alarm.

Part # APSiM3Plus/P



INTEGRATED VIDEO CAMERA

SMD601 series can be equipped with an embedded camera to record people in transit. The kit includes the camera with mechanical support, the adapter crossbar and the connection cable. This option requires the installation of the integrated web-server & logger.

Part # 54253



Accessories

➤ CHIP CARDS

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

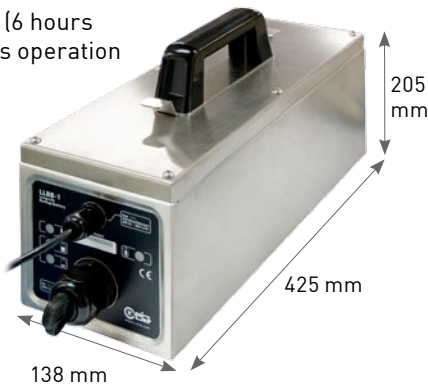


➤ MBSU-2

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

- Up to 9 hours typical (6 hours minimum) continuous operation with SMD601 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

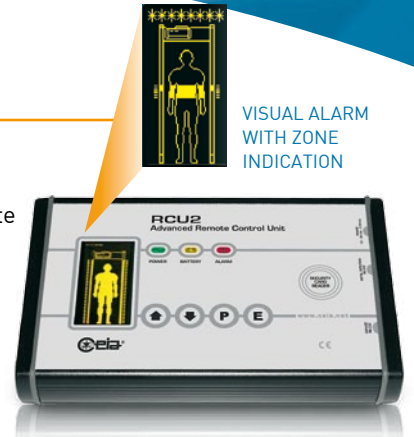
100W IP67 power supply for outdoor applications. It is provided with flanges for simple installation.

Part # 43564

➤ RCU2

Control unit for full remote access, including alarm signalling and programming of CEIA Walk Through Metal Detectors.

Part # RCU2



VISUAL ALARM WITH ZONE INDICATION

➤ MD-SCOPE

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

Part # MD-SCOPE2



➤ METAL DETECTOR DIVESTING TABLE FOR MANAGEMENT OF PERSONAL METAL BELONGINGS

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



➤ TEST SAMPLES KIT

- Part # NIJ-0601.02-SK: complete test samples kit for NIJ-0601.02 compliance verification.
- Part # EMD-SK-NIJ-S0/M0: test samples kit for NIJ-0601.02 detection capability verification.
- Part # EMD-SK-NIJ-CL2/3: test samples kit for NIJ-0601.03 detection capability verification.



SMD601 Plus

Most Sensitive Multi-Zone Metal Detector



Specifications

KEY FEATURES	Ultra High Sensitivity
	Fully compliant with the NIJ-0601.02 and NIJ-0601.03 Standards
	20 High Precision localization zones
	High precision bidirectional counter with automatic rescreening compensation
	Chip Card capability for fast, simple, and secure programming
	Random alarm capability programmable from 0% to 100%
	Exceptional Immunity to external interferences
	Can be combined with the Network based CEIA Profiling System for further sensitivity enhancement by compensating non-removable personal metal items
	Powered by safe low voltage DC
	Standard Interfaces: RS-232, Bluetooth, Infrared
	Other available interfaces: 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 GATE STRUCTURE	State-of-the-art, robust and washable panels
	Protected against aging, weather and wear
CENTRAL CONTROL UNIT	Ergonomic and robust design
	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 two levels of passwords
ALARM SIGNALLING	VISUAL SIGNALS
	Multi-zone display bar for "height on person" localization
	2 light bars with selectable entry/exit and pacing indication
AUDIO SIGNALS	10 selectable continuous and pulsed tone plus 34 special tones
	10 selectable sound intensities ranging from 0 to 90 dbA at 1m
TYPE OF SIGNALLING	VISUAL
	Fixed or proportional to the mass in transit - visible from 6m under lighting of 4000Lux
VISUAL ZONE INDICATION	20 distinct zones
PROGRAMMING	Over 40 built-in security programs
	Remote via RS-232, Infrared Remote Control Unit, Bluetooth™ or Ethernet 10/100 base T interface
	SECURITY LEVEL
	International Standard (IS) command
	Chip card
OPERATIONAL FEATURES	Local by Control Unit alphanumeric display and keyboard
	Programming and chip-card access protected by user and super-user passwords
	Quick reset time as short as 0.2 seconds for high throughput rate
	Very high detection speed (up to 50 ft/sec.)
	Built-in operational and technical functional verification
INSTALLATION DATA	One-touch key reading of inbound, outbound and Security Level 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

- **POWER SUPPLY:** 100...240V~ -10/+15%, 47...63Hz, 70 VA max
- **OPERATING TEMPERATURE:** -20°C to +70°C
- **STORAGE TEMPERATURE:** -35°C to +70°C
- **RELATIVE HUMIDITY:** 0 to 95% (without condensation)

Certification and Compliance

- Complies with and exceeds the applicable Standards for Law Enforcement and Correctional Facilities
- Fully compliant with, and exceeding, the NIJ-0601.02 Standard
- 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



Zona Industriale 54/G, 52041 Vicinaggio - Arezzo (ITALY)
Tel.: +39 0575 4181 Fax: +39 0575 418298 E-mail: infosecurity@ceia-spa.com

www.ceia.net

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

DP060K0053V1000UK

