



SMD601 Plus

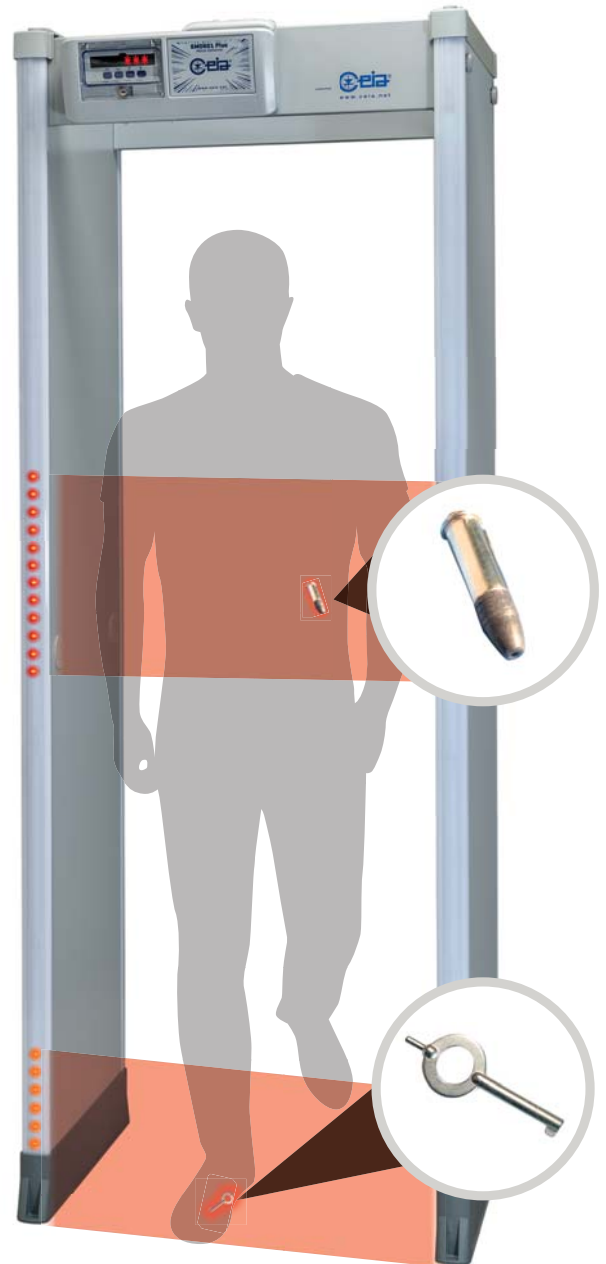
MOST SENSITIVE MULTI-ZONE METAL DETECTOR FOR LAW ENFORCEMENT AND CORRECTIONAL FACILITIES

NEW CERTIFIED
IP66 CONTROL
UNIT

ANTI-VANDALISM
CONSTRUCTION

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**



GSA Contract Holder

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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**:



LO LEVEL

LARGE OBJECT SIZE (HANDGUNS)



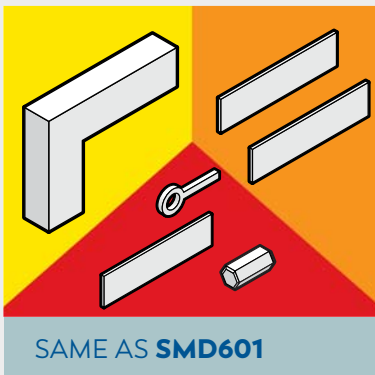
MO LEVEL

MEDIUM OBJECT SIZE (KNIVES)



SO LEVEL

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



PLUS



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





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

UNIFIED CONSTRUCTION
FOR **INDOOR** AND
OUTDOOR USE



UNIQUE ALARM SIGNALING

- 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
- 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 | • |
| 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 | • |

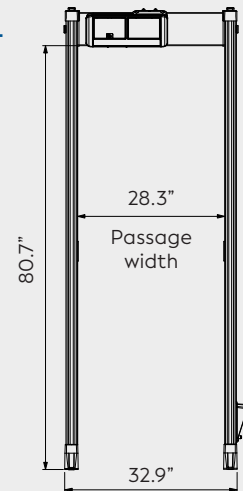
COMMUNICATION CAPABILITIES

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

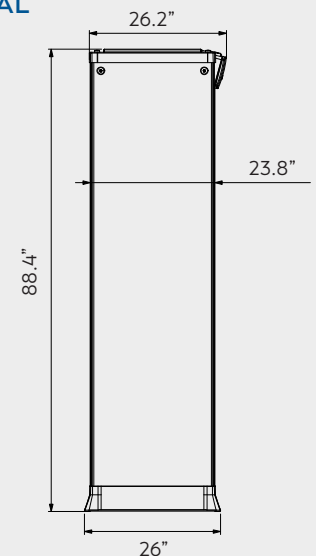
STANDARD • OPTION ○

DIMENSIONS

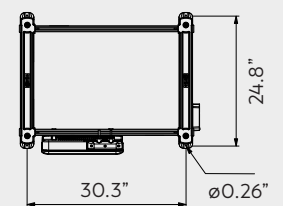
FRONT



LATERAL



TOP



CORRECTIONAL PROFILING SYSTEM (OPTION)



NIJ COMPLIANT SCREENING OF PEOPLE WITH OR WITHOUT IMPLANTED METAL OBJECTS

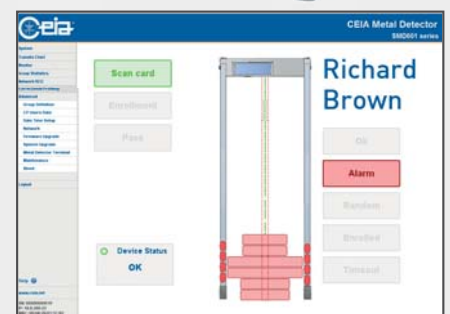
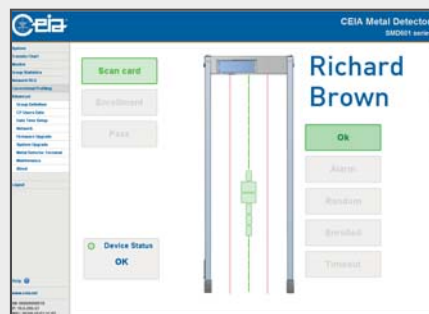
- 1** A profiled user presents their badge to the barcode reader.
- 2a** **THE USER TRANSITS THROUGH THE METAL DETECTOR**
The Metal Detector ignores profiled non-removable metal objects and does not alarm.
- 2b** **THE USER TRANSITS THROUGH THE METAL DETECTOR WITH A TARGET OBJECT**
The target is detected 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 SIGNALING
MAY BE SHOWN ON A PC
OR TABLET WEB BROWSER**



OPTIONS / ACCESSORIES

| | DESCRIPTION | P/N |
|--|---|--|
| 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 | | P/N |
|---------------------------------------|---|--|---|
| 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"> MBSU LWSC (Light Weight Soft Case Version) MBSU-2 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">    | <p>MBSU-LWSC</p> <p>MBSU-2</p> <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"> Standard length: 24" Extended length: 47" Outdoor version: 51" |  | <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 • 7": 89040 16.4 ft: 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"> 32.8 ft: 64228 65.5 ft: 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 |



VISUAL ALARM WITH ZONE INDICATION

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 50" ft/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 3.3 ft |
| | 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 19.7 ft 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 2" 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: -4°F to 149°F [-34°F to 158°F upon request]
- Storage temperature: -34°F to 158°F
- Relative humidity: 0 to 95% (without condensation)

COMPREHENSIVE SUPPORT

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



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