SMD601 Plus

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

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

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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 available in the market today 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 similar to the ones specified in the new NIJ-0601.03 Standard.

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

- **SMD601 model**
  - NIJ-L0 level: LARGE OBJECT SIZE (Handguns)
    - Handgun Zn
    - Handgun St
    - Handgun Al
  - NIJ-M0 level: MEDIUM OBJECT SIZE (Knives)
  - NIJ-S0 level: SMALL OBJECT SIZE (small, hard-to-find items)

- **SMD601 Plus model**
  - same as **SMD601**
  - Ultra-High Sensitivity capability
    - Disposable Razor Blades
    - Special metal items (e.g. AISI 300 series Stainless Steel)
    - Bullets
    - [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.

- 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

Advanced Alarm Indication

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

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**SMD601 Plus**

Most Sensitive Multi-Zone Metal Detector

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### 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.

### Communication Capabilities

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<th>TYPE OF OPERATION</th>
<th>Ethernet</th>
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### Model Configuration

**Features**

- 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
- Correctional Profiling System
- Integrated web-server & logger (includes Ethernet and USB interface)
- Integrated video camera (lobby applications) with MDAR software
- Weather resistant protection
- Anti-vandalism, anti-tampering protection
- IP65 protection (includes weather resistant and anti-vandalism options)
- Embedded battery charger and under-voltage protection
- Long life crossbar battery back-up

**Dimensions (mm)**

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Correctional Profiling System (option # 1D/2READER/P)

NIJ compliant screening of people with or without implanted metal objects

1. A registered user presents his badge to the reader.
2a. The person transits through the Metal Detector. The Metal Detector ignores non-removable metal objects such as prosthetics or shrapnel present inside the person.

2b. The person transits through the Metal Detector. The Metal Detector shows the threat objects.

This option requires the installation of the integrated web-server & logger.

APSiM3Plus Integrated Web-server & Logger (option # APSiM3Plus/P)

- Monitor the status of Metal Detector network in real time
- Remotely control and verify the security level
- Report on number of people screened and alarm rates automatically
- No server or specialized client software required, only a web browser
- Zero configuration network for simple setup

- 2 x Ethernet 100base-TX
- Wi-Fi - 802.11 b/g

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Enhanced Walk-Through Metal Detectors

PMD2 Plus series

Most Sensitive Multi-Zone Metal Detector

SMD601 Plus

Additional Options and Upgrade Kits

- **Integrated video camera with MDAR software**
  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

- **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

- **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

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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:
- Up to 9 hours typical (6 hours minimum) continuous operation with SMD601 Plus
- 5 hours typical charging time.
Part # MBSU-2

**MD-Scope**
Powerful, PC based installation and service software. Includes oscilloscope and terminal functionality. Part # MD-SCOPE2

**IRC-1**
Infrared Remote Controller for wireless remote programming of the control unit. Part # 47180

**Metal Detector Divesting Table**
FOR MANAGEMENT OF PERSONAL METAL BELONGINGS
- Standard length: 610 mm (Part # 18074)
- Extended length: 1200 mm (Part # 39491)

**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

**Test samples kit**
- Part # NIJ-0601.02-SK: complete test samples kit for NIJ-0601.02 compliance verification.
- Part # EMD-SK-NIJ-SO/MO: 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.

**Waterproof mains power supply**
100W IP67 power supply for outdoor applications. It is provided with flanges for simple installation.
Part # 43564
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: 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 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-vandalsism 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
  - Green and red metering signals proportional to the mass of the detected target
- **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 ZONE INDICATION**
  - Fixed or proportional to the mass in transit - visible from 6m under lighting of 4000ux
  - 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
- Local by Control Unit alphanumeric display and keyboard
- Programming and chip-card access protected by user and super-user passwords

**OPERATIONAL FEATURES**
- 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
- 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)

**SHIPPING DATA**
- Dimensions (mm): 2340 x 290 x 800 (WxDxH)
- Weight: 74 kg

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**Environmental Data**
- **POWER SUPPLY**: 100…240V~ -10/+15%, 47…63Hz, 70 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 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

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