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.

*Data available upon request*
The Standard establishes the requirements of Sensitivity, Discrimination and Immunity for Law Enforcement and Correctional Facilities.

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 LEVEL OF SECURITY

**1**
- Steel Handgun
- Zinc Handgun
- Aluminum Handgun

**LO LEVEL: LARGE OBJECT SIZE**

**2**
- Steel Knife
- Aluminum Knife

**MO LEVEL: MEDIUM OBJECT SIZE**

**3**
- Stainless Steel Knife
- Handcuff Key
- Screwdriver Bit

**SO LEVEL: SMALL OBJECT SIZE**

### INNOCUOUS ITEMS

A
- Eyeglasses
B
- Belt buckle
C
- Watch
D
- Set of coins

### TEST POSITIONS

#### 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:

**LO**
- 25 transits with A + B + C + D (max 5 alarms)

**MO**
- 25 transits with A + B (max 5 alarms)

**SO**
- 8 transits with no items (no alarms allowed)

#### 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.

CEIA USA reserves the right to make changes, at any moment and without notice, to the models, their accessories and options, to the prices and conditions of sale.
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.

- 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
  
  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

- 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-of-the-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.
UNIQUE ALARM SIGNALING

- 4 Multi-Zone Display Bars, each programmable as entry Stop/Go and/or local alarm indication
- Flexible Acoustic Alarm Signaling System:
  - 10 Continuous and Pulsed Tones
  - 34 Special Sounds
- 10 Alarm Volume Levels
  A complete acoustic alarm system allows personalization of the alarm tones and volume, 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

COMMUNICATION CAPABILITIES

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<thead>
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<th>TYPE OF OPERATION</th>
<th>ETHERNET</th>
<th>USB</th>
<th>INFRARED</th>
<th>BLUETOOTH</th>
<th>RS-232</th>
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<td>Remote Control</td>
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<tr>
<td>Remote Data collection</td>
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STANDARD • OPTION ○
**SMD600 PLUS/PZ MODEL CONFIGURATION**

- Fully compliant with, and exceeding, the NIJ-0601.02 Standard
- 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 (OTSI)
- 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)
- Weather resistant protection
- Anti-vandalism, anti-tampering protection (with IP65 control unit)
- IP65 protection (IP65 control unit, IP68 power supply adapter, anti-vandalism protections, weatherproof gate structure, compliant with IEC 60950-22)
- Embedded battery charger and under-voltage protection
- Long life crossbar battery back-up
- 32.3” useful passage width
- Very High precision transit counter (4-beam)

**STANDARD • OPTION**
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 waterproof mains power supply adapter.
- 28.3" passage width (part # 55630)
- 32.3" passage width (part # 55633)

ANTI-VANDALISM, ANTI-TAMPERING PROTECTION
This option includes stainless steel control unit, IP68 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 comprises the Weather Resistant and the Anti-vandalism kits.
- 28.3" passage width (part # 55631)
- 32.3" passage width (part # 55632)

32.3” USEFUL PASSAGE WIDTH
Part # 55635

LONG LIFE CROSSBAR BATTERY BACK-UP
Crossbar battery back-up in stainless steel case. Provides up to 9 hours of autonomous working time.
Part # 76866

EMBEDDED BATTERY CHARGER AND UNDER-VOLTAGE PROTECTION
Advanced power supply module with anti-tamper on/off switch, RS-232 interface, internal battery back-up and 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
ACCESSORIES

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

MD-SCOPE
Powerful, PC based installation and service Software. Includes oscilloscope and terminal functionality. Part # MD-SCOPE2

MBSU-2
Independent, compact size, long life power supply in weatherproof stainless steel case, with embedded fast charger:
- 13 hours typical (8 hours minimum) continuous operation with SMD600 Plus
- 5.5 hours typical charging time.
Part # MBSU-2

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

METAL DETECTOR DIVESTING TABLE
In combination with CEIA Walk-Through Metal Detectors, it is a temporary location of personal metal effects for people to be screened.
- Standard length: 24” (Part # 18074)
- Extended length: 47” (Part # 39491)
- Outdoor version: 51” (Part # 67021U)

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

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 # 63744: test samples kit for NIJ-0601.02 MO and SO classes detection capability verification
- Part # EMD-SK-GDML: reference samples for accurate verification of the disassembled guns Security Level

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-0003

WATERPROOF MAINS POWER SUPPLY
IP68 power supply for outdoor applications. It is provided with flanges for simple installation. Part # 64610

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SMD600 PLUS  TWO-IN-ONE METAL DETECTOR

SPECIFICATIONS

KEY FEATURES
- Very High Sensitivity
- Excellent discrimination of personal metal effects
- Fully compliant with, and exceeding, the NIJ-0601.02 Standard
- Very high throughput in high security public screening checkpoints
- Met-Identity technology identifies and signals the metal type in real time
- Exceptional immunity to external interferences
- High precision bidirectional counter with automatic rescreening compensation
- Random alarm capability programmable from 0% to 100%
- Chip Card capability for fast, simple, and secure programming
- 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-vandalism construction (option)
- Access to the front panel protected by hardware key and 3 levels of passwords

ALARM SIGNALING
- VISUAL SIGNALS
  Multi-zone display bar for “height on person” localization
  4 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 SIGNALING
- VISUAL
  Fixed or proportional to the mass in transit - visible from 6m under lighting of 4000lux
- VISUAL ZONE INDICATION
  20 x 4 distinct zones (20x2 entry side and 20x2 exit side)

PROGRAMMING
- Up to 50 built-in security programs (up to 30 International Standards, up to 20 Customizable Levels)
- Remote via RS-232, Infrared Remote Control Unit, Bluetooth™ or Ethernet 10/100 base T (option)
- 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 synchronization between two or more metal detectors with distance as close as 12” without the use of external cables
- Built-in floor sensitivity adjustment function
- Automatic installation function (OTS)

APPLICATIONS

AIRPORTS
GOVERNMENT BUILDINGS
INDUSTRIES (SECURITY)
NUCLEAR FACILITIES (SECURITY)
PUBLIC EVENTS
COURTS

ENVIRONMENTAL DATA

- POWER SUPPLY: 100…277V~ -10%, 47…63Hz, 40 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)

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 and certified to the applicable Standards for Enhanced Metal Detectors (EMD)
- 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 (CD, tapes, etc.)

COMPREHENSIVE SUPPORT

- CEIA USA provides full operational and technical training support by certified personnel either at CEIA USA facility or at customer location

www.ceia-usa.com

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