SMD600 Plus

TWO-IN-ONE METAL DETECTOR

NIJ-0601.02 Compliant Certified by Governmental Laboratories*



HIGH SENSITIVITY

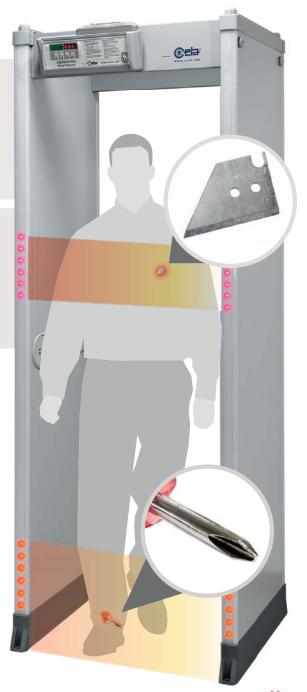
Fully compliant with the **NIJ-0601.02**Law Enforcement Standard



HIGH DISCRIMINATION

Compliant with and Certified to the strictest Standards for Airport security screening

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.







www.ceia-usa.com



^{*}Data available upon request

FULLY COMPLIANT WITH THE NIJ-0601.02 STANDARD

The Standard establishes the requirements of Sensitivity, Discrimination and Immunity for Law Enforcement and Correctional Facilities.



NIJ-0601.02 FULL COMPLIANCE

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

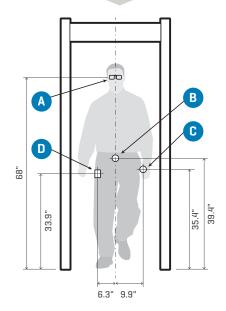


MO LEVEL: MEDIUM OBJECT SIZE



SO LEVEL: SMALL OBJECT SIZE

INNOCUOUS ITEMS



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

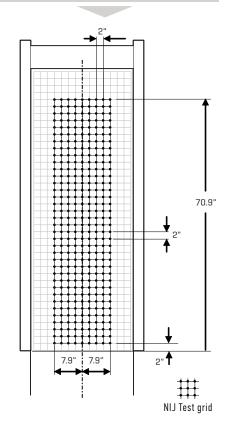
- **LO** 25 transits with A + B + C + D (max 5 alarms)
- MO 25 transits with A + B (max 5 alarms)
- SO 8 transits with no items (no alarms allowed)

A Eyeglasses B Belt buckle



Watch Set of coins

TEST POSITIONS



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.

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.



VERY HIGH SENSITIVITY



VERY HIGH THROUGHPUT

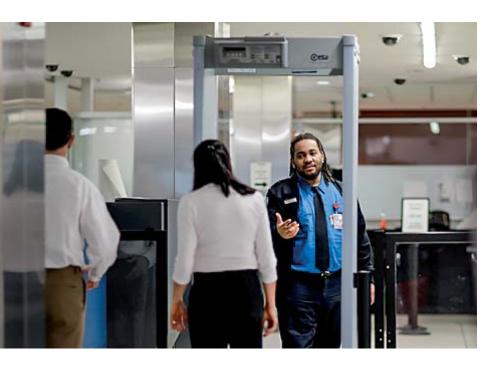
- Quick, accurate analysis of all parts of the body of people in transit, from the shoe level to the crossbar
- Accurate pinpointing of individual and multiple metal targets

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

Accurate signaling is essential for best operation and flow management. The SMD600 Plus provides the user with fully-programmable signaling. Both entry-points can indicate with a high level of accuracy, even simultaneously, the areas of transit of the threats detected, and can also be configured as 'traffic lights' to control transits through the detector.

- 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.

HIGH PRECISION TRANSIT COUNTER

The Metal Detector provides an automatic count of the people passing through the access point in both directions and the related nuisance alarm percentage:

- In-Bound Transits
- Out-Bound Transits
- Alarm Rate
- Automatic Compensation for repeated transits of the same person



MOST POWERFUL AND VERSATILE SECURITY FEATURES



SECURITY LEVELS

- 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

CHIP CARD SYSTEM

Chip Card for automatic selection of Security Levels and parameter changes.



COMMUNICATION CAPABILITIES

TYPE OF OPERATION	ETHERNET	USB	INFRARED	BLUETOOTH	RS-232
Maintenance	0	0		•	•
Remote Control	0		•	•	•
Remote Data collection	0				

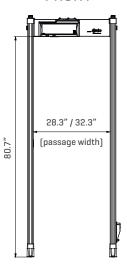
STANDARD • OPTION O



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 (OTS)	•
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)	0
Weather resistant protection	0
Anti-vandalism, anti-tampering protection (with IP65 control unit)	0
IP65 protection [IP65 control unit, IP68 power supply adapter, anti-vandalism protections, weatherproof gate structure, compliant with IEC 60950-22]	0
Embedded battery charger and under-voltage protection	0
Long life crossbar battery back-up	0
32.3" useful passage width	0
Very High precision transit counter (4-beam)	0
STANDARD ● OPTION ○	

DIMENSIONS



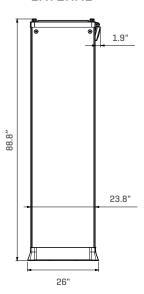


TOP



34.5" / 38.5"

LATERAL



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



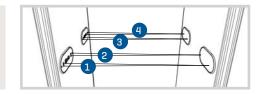


VERY HIGH PRECISION TRANSIT COUNTER

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 # RCII2



VISUAL ALARM WITH ZONE INDICATION



IRC-1

Infrared Remote Controller for wireless remote programming of the control unit.

Part # 47180



Detectors, it is a temporary location of personal metal effects for people to be screened.

• Standard length: 24" (Part # 18074)

METAL DETECTOR DIVESTING TABLE

In combination with CEIA Walk-Through Metal

• Extended length: 47" [Part # 39491] • Outdoor version: 51" (Part # 67021U)



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



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





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	VISUAL	Multi-zone display bar for "height on person" localization			
SIGNALING	SIGNALS	4 light bars with selectable entry/exit and pacing indication			
		Green and red metering signals proportional to the mass of the detected target			
	AUDIO	10 selectable continuous and pulsed tone plus 34 special tones			
	SIGNALS	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 x4 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 tm 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				
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	Automatic synchronisation between two or more metal detectors with distance as close as 12"				
DATA	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



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