

SMD600 Plus

ENHANCED WALK-THROUGH MULTI-ZONE METAL DETECTOR

NEW WTMDs
IP66 CONTROL
UNIT

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.*

**Data available upon request*



www.ceia.net

THREAT DETECTION THROUGH ELECTROMAGNETICS




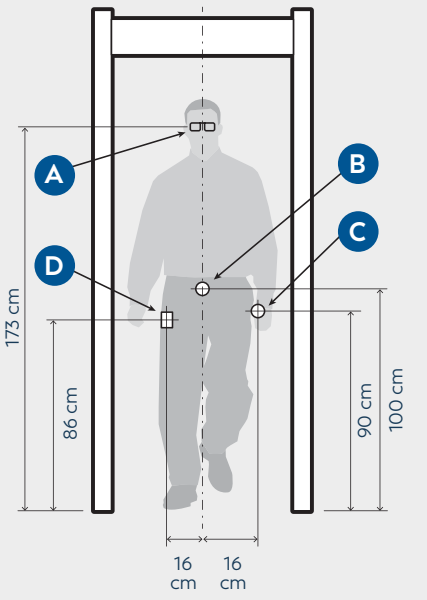
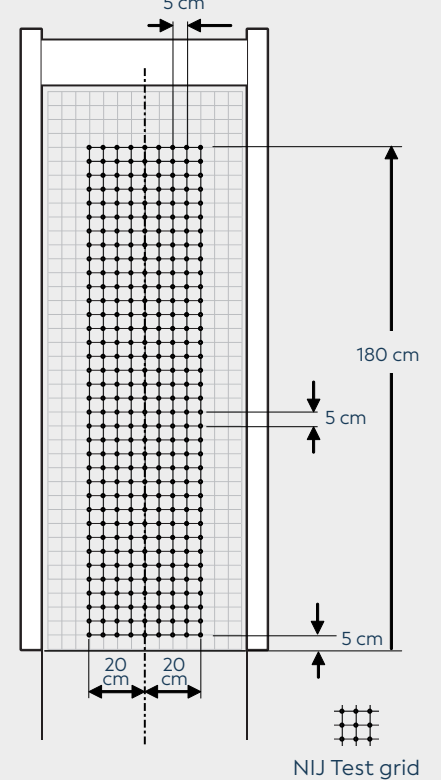
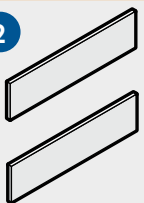
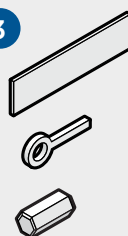
FULLY COMPLIANT WITH THE NIJ-0601.02 STANDARD

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	INNOCUOUS ITEMS	TEST POSITIONS				
<div style="border: 2px solid yellow; padding: 10px;">  <ul style="list-style-type: none"> • STEEL HANDGUN • ZINC HANDGUN • ALUMINUM HANDGUN </div>						
<p>LO LEVEL: LARGE OBJECT SIZE</p> <div style="border: 2px solid orange; padding: 10px;">  <ul style="list-style-type: none"> • STEEL KNIFE • ALUMINUM KNIFE </div>			<p>DISCRIMINATION TEST</p> <p>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:</p>	<p>DETECTION TEST OBJECT TRANSITS</p>		
<p>MO LEVEL: MEDIUM OBJECT SIZE</p> <div style="border: 2px solid red; padding: 10px;">  <ul style="list-style-type: none"> • STAINLESS STEEL KNIFE • HANDCUFF KEY • SCREWDRIVER BIT </div>			<ul style="list-style-type: none"> 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) <table border="0" style="width: 100%;"> <tr> <td>A Eyeglasses</td> <td>C Watch</td> </tr> <tr> <td>B Belt buckle</td> <td>D Set of coins</td> </tr> </table>	A Eyeglasses	C Watch	B Belt buckle
A Eyeglasses	C Watch					
B Belt buckle	D Set of coins					

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.



HIGH SENSITIVITY

- 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
- Met-Identity technology for Identification of Threat Composition
- 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.

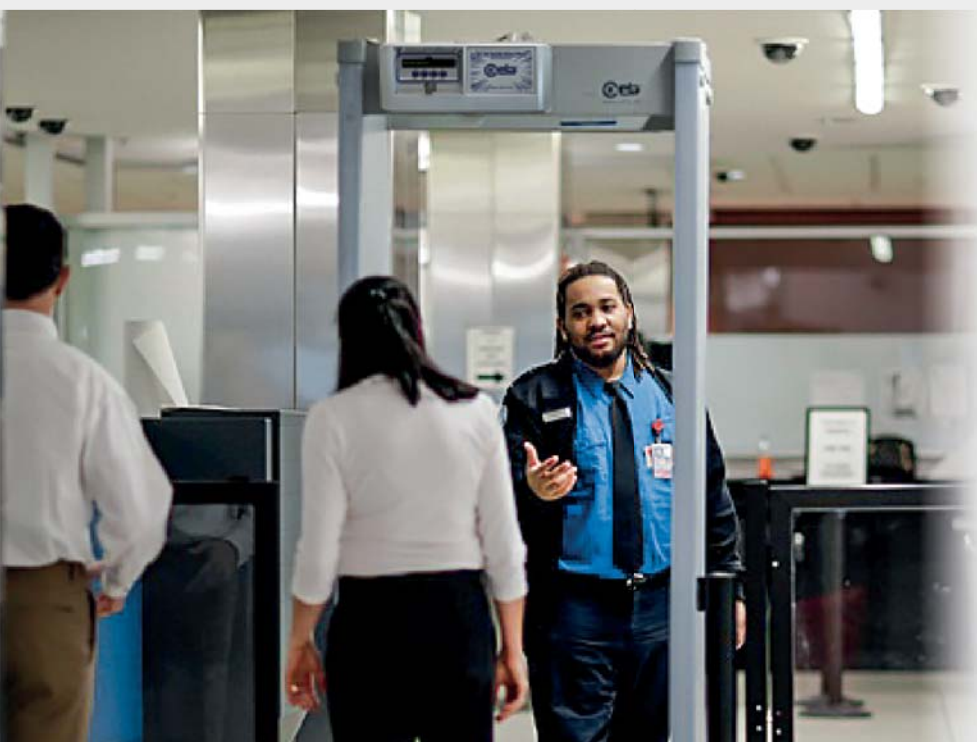


HIGH THROUGHPUT

- Cutting-edge discrimination technology allows personal effects to be ignored, creating rapid transit flow
- No need to remove items such as belts, coins, keys, jewelry, watches, wallets, etc.

The transit volume magnetic scanning system, designed 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 a very **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.



ALARM



NO ALARM





UNIFIED CONSTRUCTION
FOR INDOOR AND
OUTDOOR USE



NEW WTMDs IP66 CONTROL UNIT

- New integrated design
- Total mechanical compatibility with IP20 (plastic) and IP65 (stainless steel) control units:
 - ▶ Dimensional ▶ Installation ▶ Wiring ▶ Chip card
- Robust structure through the use of high-performance polymers for the construction of housing
- Waterproof / Dustproof: IP rating IP66 compliant
- 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



UNIQUE ALARM SIGNALLING

- High visibility of the control unit and the zone indication independent from the operator position and the installation environment
- Flexible Acoustic Alarm Signaling System:
 - ▶ 10 Continuous and Pulsed Tones ▶ 34 Special Sounds
- 10 Alarm Volume Levels
- Very High Precision Transit Counter



4 MULTI-ZONE DISPLAY BARS

Light bars indicate metal position vertically and laterally and can also show pacing lights.

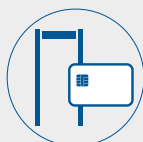


MOST POWERFUL AND VERSATILE SECURITY FEATURES

- 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 program and save it in internal memory for later use.



- 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

The system allows the Head of Security to set the Security Level quickly, reliably and without having to program the device in any way.



SMD600 PLUS MODEL CONFIGURATION

STANDARD 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	●
Specific Shoe Alarm color indication	●
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)	●
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	●

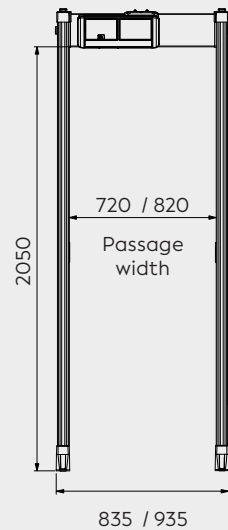
COMMUNICATION CAPABILITIES

TYPE OF OPERATION	ETHERNET	USB	INFRARED	BT	RS-232
MAINTENANCE	○	○		●	●
REMOTE CONTROL	○		●	●	●
REMOTE DATA COLLECTION	○				

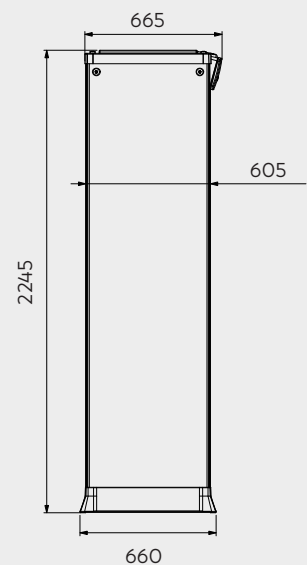
STANDARD ● OPTION ○

DIMENSIONS (mm)

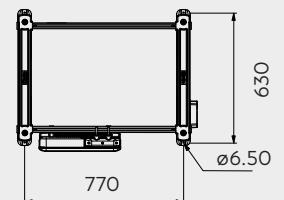
FRONT



LATERAL



TOP

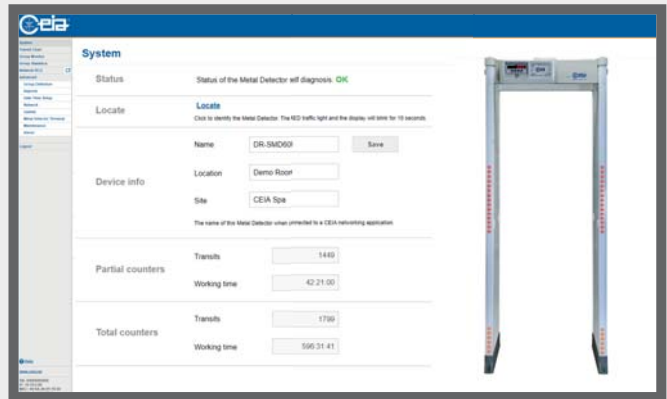


INTEGRATED WEB-SERVER & LOGGER



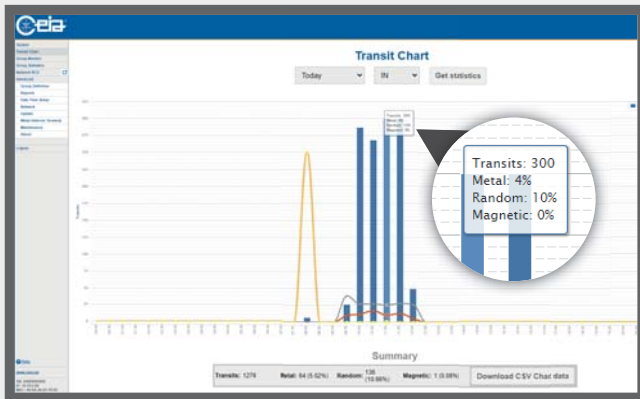
MONITOR

- Monitor the status of Metal Detector network in real time
- Centralized Setting of the Metal Detectors' working parameters
- Transits flow monitoring



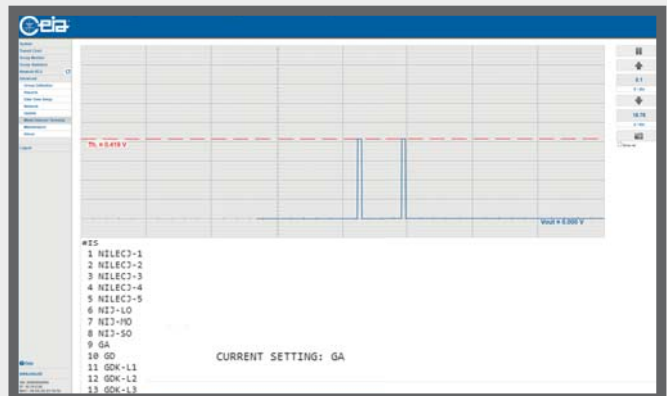
REPORT

- Report on number of people screened and alarm rates automatically
- Detailed reporting of the transits data and the Security Device configuration data



CONTROL







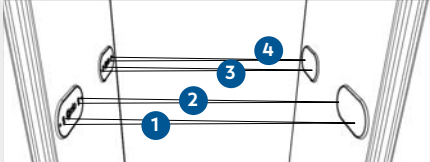

- Remotely control and verify the security level
- No server or specific client software required, only a web browser
- Zero configuration network for simple setup
- 2 x Ethernet 100base-TX









APSiM2 Plus, APSiM3 Plus

The APSiM2 Plus, APSiM3 Plus modules allow you to protect and manage your checkpoint better while saving labor hours in the process.

OPTIONS

OPTION	DESCRIPTION	CODE
<p>IP65 CONFIGURATION</p>	<p>Outdoor sheltered permanent or non-sheltered short-term installations [single event entrance]</p>  	<ul style="list-style-type: none"> • 720 mm passage width [102710] • 820 mm passage width [102712]
<p>EMBEDDED BATTERY BACK-UP AND CHARGER</p>	<p>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].</p> 	<p>APSM2Plus/P</p>
<p>APSiM2 PLUS Integrated Web-server & Logger, Battery Back-up and Charger</p>	<p>Lower Connection Module with anti-tamper on/off switch, RS-232 interface, internal battery back-up and the following functions:</p> <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 	<p>APSiM2Plus/P</p>
<p>APSiM3 PLUS Wireless Network Module</p>	<p>The APSiM3 Plus integrates a secure web server and WiFi infrastructure using state of the art SSL and WPA2 security protocols. The APSiM3 Plus can act both as a WiFi client and WiFi access point allowing to set up a local secure wireless network without requiring additional devices.</p>  	<p>APSiM3Plus/P</p>
<p>820 mm USEFUL PASSAGE WIDTH</p>		<p>55635</p>
<p>VERY HIGH PRECISION TRANSIT COUNTER (4-BEAM)</p>	<p>The 4-beam version further increases accuracy in counting and determination of transit direction, even in intense transit conditions: ▶ In-Bound Transits ▶ Out-Bound Transits ▶ Alarm Rate ▶ Automatic Compensation for repeated transits of the same person</p> 	<p>46112</p>
<p>M12 SENSOR Cell phone ferromagnetic detector</p>	<p>Simultaneous detection of all metal [magnetic and non-magnetic] firearms and cellphone/smartphone devices. In this configuration both panels of the archway are equipped with dual color light bars [red and yellow colors] and 4-beam photocells modules.</p> 	<p>93530</p>

ACCESSORY	DESCRIPTION	CODE
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.	MD-WHK
CROSSBAR BATTERY BACK-UP	<p>1 Crossbar battery back-up in stainless steel case. Up to 10 h of autonomous working time.</p> <p>2 Protection cover</p>	<p>55681</p> <p>Protection cover: • 720 mm passage width: 88858 • 820 mm passage width: 88861</p>
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	<p>1 MBSU LWSC (Light Weight Soft Case Version)</p> <p>2 MBSU-2</p> <p>3 TSU (Tactical supply unit)</p> <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. The devices are extremely easy to use, and provide indication of the battery level and charging status.</p> <p>TYPICAL CONTINUOUS OPERATION</p> <ul style="list-style-type: none"> • MBSU LWSC: 14h • MBSU-2: 14h • TSU: 4 battery pack: 12h / 6 battery pack: 17h / 8 battery pack: 23h 	<p>MBSU LWSC</p> <p>MBSU-2</p> <p>TSU</p>
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. An additional relay is available for a customer-specified application.	RRU-2
IRC-1	Infrared Remote Controller for wireless remote programming of the control unit.	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.	<p>• 46650</p> <p>• 180 mm: 89040</p> <p>• 5 m: 95352</p>
TOP POWER CABLE	This cable allows the AC/DC adapter to be connected to PS/COM port located on top of the TX antenna.	<p>• 10 m: 64228</p> <p>• 20 m: 68346</p>

ACCESSORY	DESCRIPTION	CODE
<p>INTEGRATED CAMERA SYSTEM</p>	<p>Video camera with support arm and connecting cables. Installation of the APSiM3 Plus module is required.</p>	<p>54253</p> 
<p>TDU Thermal Detection Unit</p>	<p>The TDU (Thermal Detection Unit) is an upgrade sensing kit for COVID screening compliance:</p> <ul style="list-style-type: none"> 1 Thermal Camera Arm 2 Dual Reference Calibration Unit 	<p>TDU/P</p> 
<p>WHEEL KIT - SHORT RANGE</p>	<p>For short range movement of the walk-through metal detectors.</p>	<p>1 75459 2 70796</p>  
<p>WHEEL KIT - LONG RANGE</p>	<p>For heavy duty, longer range movement of the walk-through metal detector.</p>	<p>2</p> 
<p>METAL DETECTOR DIVESTING TABLE</p>	<p>In combination with CEIA Walk-Through Metal Detectors, it is a temporary location of personal metal effects for people to be screened:</p> <ul style="list-style-type: none"> 1 Standard length: 610 mm 2 Extended length: 1200 mm 3 Outdoor version: 1300 mm 	<p>STANDARD: 18074 EXTENDED: 39491 OUTDOOR: 67021</p> 
<p>REFERENCE TEST SAMPLES</p>	<p>CEIA provides certified Test Samples reproducing for shape, material and signal on WTMDs the same effect of the reference targets:</p> <ul style="list-style-type: none"> 1 NIJ-0601.02-SKN: Complete test samples kit for NIJ-0601.02 detection and discrimination compliance verification 2 63744: Test samples kit for NIJ-0601.02 MO and SO classes detection capability verification 3 EMD-SK-GDML: Reference samples for accurate verification of the disassembled guns Security Level 	<p>NIJ-0601.02-SKN NIJ-0601.02-SO/MO-SK EMD-SK-GDML</p> 
<p>OFV</p>	<p>Operator Functionality Verification test-kit</p>	<p>OFV</p>

SPECIFICATIONS

GATE STRUCTURE	State-of-the-art, robust and washable panels 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 15 m/sec.) Built-in operational functional verification 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 SIGNALING	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 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	Fixed or proportional to the mass in transit - visible from 6m under lighting of 4000lux 20 x4 distinct zones (20x2 entry side and 20x2 exit side)
PROGRAMMING	Up to 50 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
ENVIRONMENTAL DATA	Power Supply : 100...277V~ ±10%, 47...63Hz, 40 VA typical consumption Operating temperature: -20°C to +65°C [-37°C to +70°C upon request] Storage temperature: -37°C to +70°C Relative humidity: 0 to 95% (without condensation)
INSTALLATION DATA	Automatic synchronisation between two or more metal detectors with distance of down to 5 cm without the use of external cables Automatic Installation function (OTS)

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.)

APPLICATIONS

- GOVERNMENT BUILDINGS
- AIRPORTS
- INDUSTRIES (SECURITY)
- INDUSTRIES (LOSS PREVENTION)
- NUCLEAR FACILITIES (SECURITY)
- PRISONS (VISITORS)
- PRISONS (INMATES)
- COURTS
- DATA PROCESSING CENTERS (EDP)

COMPREHENSIVE SUPPORT

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

SAMPLE INSTALLATIONS



BUILDING SECURITY



LOSS PREVENTION



COURTS



CEIA - Zona Industriale 54, 52041 Vicinaggio - Arezzo (ITALY)
T +39 0575 4181 • F +39 0575 418298 • E 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. DP060K0094v1000hUK - 105709 (2021)

