smiths detection

HI-SCAN[™] 6040-2is

DUAL-VIEW X-RAY INSPECTION FOR HAND LUGGAGE EU EDS Cabin Baggage Standard C1 approved



Feature Highlights

- Compact footprint and weighs less than 850 kg (1873 lbs)
- Steel penetration of 35 mm (1.38")
- Flexible design for easier installation through door widths of 900 mm (35.5")
- Dual-view technology
- Operator friendly interface
- Available in standard and high resolution

HI-SCAN 6040-2is HR: Approved as LEDS according to EU Standard 2 and 3 Type C

HI-SCAN 6040-2is HR: Approved according to EU EDS Cabin Baggage Standard C1 HI-SCAN 6040-2is is an advanced dual view X-ray inspection system for automatic explosives and liquids detection. It offers high throughput at security checkpoints, where bags and personal belongings are screened, utilising proven Heimann X-ray technology to assist with detection of dangerous and illegal objects, highlighted in excellent, high quality dual-view images.

With its modern, contemporary design the HI-SCAN 6040-2is provides increased flexibility, with its compact footprint and lower weight, less than 850 kg (1873 lbs). It can be used in areas that are restricted in space and will fit through doorways of 900 mm (35.5") for installation.

HI-SCAN 6040-2is comes with outstanding steel penetration of 35 mm (1.38") and an operator friendly interface which makes it easy for the user to identify illegal objects and explosives that pose a threat to society.

Available in standard and also in high resolution, for better wire detectabiliy (AWG 40) in order to comply with EU Standard 3 Type C (LEDS).

Another option is iCMORE Weapons for the automatic detection of pistols, revolvers, gun parts, flick and fixed blade knives. Developed using AI, it is part of the iCMORE family of smart and adaptable object recognition algorithms.

The HI-SCAN 6040-2 is is suitable for airports, government buildings, hotels and other critical infrastructure applications where reliable security solutions are required.

ATTACHMENT 1B

General Specifications

Conveyor speed with 50 Hz / 60 Hz standard: 0.2/0.24 [m/s] mains frequency Max. conveyor load even distributed 160 kg (352 lbs) over the whole conveyor 41

Tunnel dimensions 620 (W) x 420 (H) [mm] • 24.4" (W) x 16.5" (H) Max. object size 615 (W) x 410 (H) [mm] • 24.2" (W) x 16.1" (H) Conveyor height ¹¹ approx, 800 mm (31,4")

Resolution (wire detectability) 21 standard resolution (SR): standard: 39 AWG • typical: 40 AWG high resolution (HR]: standard: 40 AWG • typical: 41 AWG Pentration (steel) ²⁾ standard: 35 mm • typical: 37 mm External dose rate <1 µSv/h (0,1 mrem) Film safety guaranteed up to ISO 1600 (33 DIN) with a maximum of 5 inspections Operating cycle 100 %, no warm-up procedure required

X-ray Generator

X-ray generators 2 Anode voltage • cooling 160 kV cp • hermetically sealed oil bath Beam direction horizontal and vertical

Image Generating System

X-ray converter dual-view detector system with large-scale integrated, monolithic amplifier Grey levels stored 4096 Image presentation B/W, color, HI-MAT Plus Digital video memory 1280 x 1024 / 24 bit Image evaluation functions VARI-MAT, 02, OS, HIGH, LOW, NEG, HI-SPOT, SEN, XPlore, Opti-Zoom, HDA, stepless, electronic Zoom: enlargement: up to 64 times Monitor Flat Panel LCD Monitor

Additional Features

Functions fading-in of date/time, luggage counter, user id-number, luggage marking system (acoustic), display of operating mode, REVIEW-feature (to recall previously visible image areas), zoom overview, free programmable keys, USB 2.0 interface, stepless zoom, IMS (Image Store System - stores up to 100,000 images) Options HI-TIP, Xport, iCMORE Weapons (HR version only)

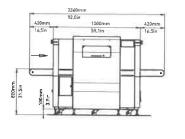
Installation Data

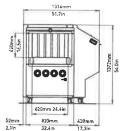
X-ray leakage meets all applicable laws and regulations with respect to X-ray emitting devices CE labelling/directives in compliance with directives 2004/108/EC, 2006/42/EC, 2006/95/EC developed in accordance with standards IEC, UN, UL, CSA Sound pressure < 65 dB(A) Operating-/storage temperature 0° - 40°C / -20°C - +60°C Humidity 10% - 90% (not condensing) Power supply standard: 100, 120, 200, 230, 240 VAC +10% / -20% • 50 Hz - 60 Hz ± 3 Hz Power consumption max. 1.2 kVA Protection class system/keyboard IP 20 / IP 43 Dimensions • weight ^{a)} 2340 (L) x 1314 (W) x 1372 (H) [mm] • approx, 820 kg Mechanical construction steel construction with steel panels, mounted on roller castors standard color(s): silver matt / B11-W1 (blue)

¹⁷approx. values (adjustable)

²⁾ proprietary quality management test piece: steel step wedge, CU wires, belt speed 0.2 m/s

³⁾ without control desk, keyboard, monitor(s) etc. ⁴ measured at ambient temperature of 20°C and nominal voltage





For product information, sales or service, please go to www.smithsdetection.com/locations

Smiths Heimann GmbH, Im Herzen 4, 65205 Wiesbaden, Germany

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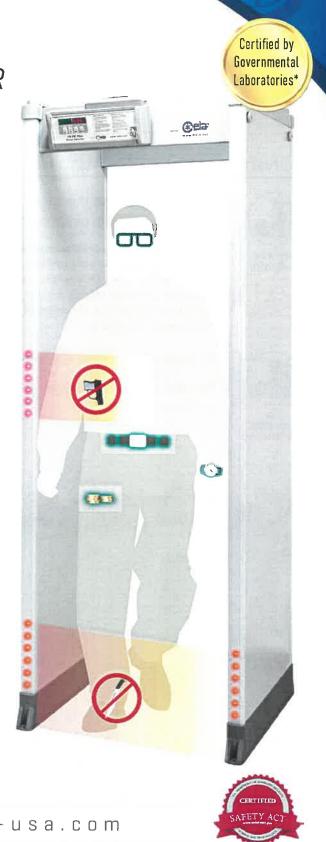
HI-PE Plus

ENHANCED WALK-THROUGH MULTI-ZONE METAL DETECTOR

- Accurate Detection of all Metallic Threat Items
- High Discrimination and Throughput
- Exceptional Immunity to external interferences
- Compliant with and Certified to the Strictest Security Standards for weapons detection
- Unmatched Reliability
- Rapid Installation
- Panel Design

* Data available upon request









GSA Contract Holder

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The **HI-PE Plus Multi-Zone Metal Detector** provides accurate detection of all metals, high level of discrimination of non-threat items, full compliance with the latest Security Standards and exceptional immunity to external interferences.

FEATURES



 Capability to detect the full range of metal weapon threats even within body cavities

VERY HIGH SENSITIVITY

HIGH RESOLUTION AND PRECISION

- The *HI-PE Plus* detects firearms and knives of this type, even when they are hidden within body cavities, and accurately indicate the position of the threat, its intensity and its prevalent composition. Inspection personnel thereby acquire thorough knowledge of the metal item and can act, according to procedures, with maximum effectiveness and security.
- 60 localization zones:

 20 vertical
 3 lateral
- Met-Identity technology for Identification of Threat Composition

MET-IDENTITY TECHNOLOGY

With Met-Identity technology, the HI-PE Plus allows you to know where, how much and what type of metal is being brought into the secure area.









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The **HI-PE 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.

BENEFITS



THROUGHPUT

 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 *HI-PE 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 security personnel.



UNIQUE ALARM SIGNALING



- 4 Multi-Zone Display Bars, each programmable as entry Stop/Go and/or local alarm indication
- PROGRAMMABLE DISPLAY BARS
- High visibility of the control unit and the zone indication independent from the operator position and the installation environment

The *HI-PE Plus* provides the user with fully-programmable signaling. Both entry-points can indicate with a high level of accuracy, even simultaneously, the vertical and lateral areas of transit of the threats detected, and can also be configured as 'traffic lights' to control transits through the detector.



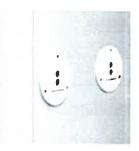
- Flexible Acoustic Alarm Signaling System:
 10 Continuous and Pulsed Tones > 34 Special Sounds
- 10 Alarm Volume Levels

A complete acoustic alarm system allows personalization of the alarm tones and volume, with a wide choice of continuous, pulsed and special tones. The wide volume control dynamic allows operation even in very noisy environments.

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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



HI-PE PLUS ENHANCED WALK-THROUGH MULTI-ZONE METAL DETECTOR

Setting the Security Levels could not be easier and more versatile than in the HI-PE 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.

MOST POWERFUL AND VERSATILE SECURITY FEATURES



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 *HI-PE 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 for automatic selection of Security Levels and parameter changes.
- Any security standard can be enhanced with selectable random alarm probability

RAPID INSTALLATION



AUTO-SETTING

One touch guided automatic installation (OTS)

Innovative function assisting the installation through an automatic step-by-step procedure.

 Continuous self diagnostics assures monitored performance reliability

COMMUNICATION CAPABILITIES

TYPE OF OPERATION	ETHERNET	USB	INFRARED	BLUETOOTH	RS-232
Maintenance	o	o		•	•
Remote Control	O		•	•	•
Remote Data collection	٥				
	STANDARD •	OPTION	0		

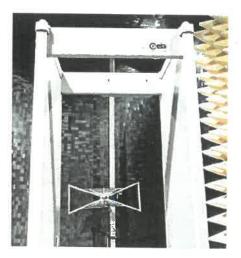


The system allows the Head of Security to set the Security Level quickly, reliably and without having to program the device in any way.





Exceptional immunity to environmental interferences makes the Metal Detector easy to use even when electrical noise is encountered.



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HI-PE Plus/PZ MODEL CONFIGURATION

Compliant with the strictest detection and discrimination standards for EMDs (Enhanced Metal Detectors)	•	DIMENSIONS
4 display bars each programmable as zone indicators and/or pacing lights	•	
60 localization zones (20 vertical x 3 lateral) with left, center and right indication	•	FRONT
High precision transit counter	•	
Chip Card Reader	•	
Bluetooth, infrared and RS-232 communication	•	
Programmable Random Alarm capability	•	28.3" / 32.3"
3-Level Password and hardware key access protection	•	⊱ (passage width) ₩
Met-Identity technology (separate Ferrous and Non-Ferrous alarm signaling)	•	
One Touch Automatic Self Installation (OTS)	•	
Automatic Operational Functional Verification (OFV)	٠	
Automatic Vibration Compensation (AVS, EVA)	٠	
Automatic Channel Search (CS)	٠	TOP
Automatic Floor Gain Adjustment (FGA)	٠	Î Î
Automatic Technical Functional Verification (TFV)	٠	
Automatic Environmental Noise Compensation (ENA)	•	
Powered by safe low voltage DC	•	34.5" / 38.5"
Anti-tamper on/off switch	•	LATERAL
Integrated web-server & logger (includes Ethernet and USB interface)	0	• • 1.9"
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	- 8. 8. 8.
Embedded battery charger and under-voltage protection	0	
Long life crossbar battery back-up	0	23.8"
32.3" useful passage width	0	
STANDARD • OPTION •		A H
		26"

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HI-PE PLUS ENHANCED WALK-THROUGH MULTI-ZONE METAL DETECTOR

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 IP68 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)

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LONG LIFE CROSSBAR BATTERY BACK-UP

Crossbar battery back-up in stainless steel case.

- Up to 13 h of autonomous working time
- 5 hours typical charging time.

Part # 76866

EMBEDDED BATTERY CHARGER AND UNDER-VOLTAGE PROTECTION

Advanced power supply module with anti-tamper an/off switch, RS-232 interface, internal battery back-up and 12 hours mains disconnection diagnostic alarm.

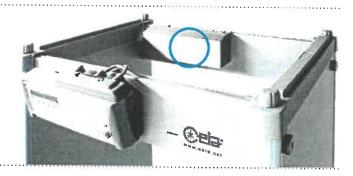
Part # APSM2Plus/P

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

32.3" USEFUL PASSAGE WIDTH Part # 55635











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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.



MBSU-2

Independent, compact size, long life power supply in weatherproof stainless steel case, with embedded fast charger:

- 12 hours typical (up to 17 h) continuous operation with HI-PE Plus
- 7 hours typical charging time.

Part # MBSU-2





IRC-1

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



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.

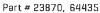
Part # RRU-0003

WATERPROOF MAINS POWER SUPPLY

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

TEST SAMPLES KIT

Reference Samples for accurate verification of the Security Level. Includes guided procedures and certificate of calibration:





MD-SCOPE

Powerful, PC based installation and service Software. Includes oscilloscope and terminal functionality (part # MD-SCOPE2).

The connection is performed via bluetooth (standard) or via cable connection (part # 3805).

RCU2

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

The connection is performed via bluetooth (standard) or via cable connection (part # 3618).





WHEEL KIT - LONG RANGE

For heavy duty, longer range movement of the walk-through metal detector. Part # 70796

WHEEL KIT - SHORT RANGE

For short range movement of the walk-through metal detectors. Part # 75459U





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)



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HI-PE PLUS ENHANCED WALK-THROUGH MULTI-ZONE METAL DETECTOR

SPECIFICATIONS

KEY FEATURES	Wide range of threat detection from guns to ½ cutter blade Excellent discrimination of personal metal effects 60 localization zones (20 vertical x 3 lateral) with left, center and right indication Met-Identity technology identifies and signals the metal type in real time				
	High precision bidirectional counter with automatic rescreening compensation				
		apability programmable from 0% to 100%			
	Exceptional Imm	unity to external interferences			
	Standard Interfa	ces: Bluetooth, Infrared . Other available interfaces: Ethernet, USB			
OUALITY		diagnostic system			
QUALITY	Proven reliabilit				
	No periodic re-c	alibration and preventive maintenance required			
	No scheduled ma				
	Fully digital desi	gn			
CATE OTDUOTUOE					
GATE STRUCTURE		, robust and washable panels t aging, weather and wear			
CENTRAL CONTROL					
UNIT	High visibility alphanumeric display and programming keyboard				
	Made of advanced plastics or stainless steel and anti-vandalism construction (option)				
	Access to the fro	nt panel protected by hardware key and 3 levels of passwords			
ALARM SIGNALING	VISUAL	Multi-zone display bar for "height on person" localization			
	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	VISUAL	Fixed or proportional to the mass in transit - visible from 6m under lighting of 4000lux			
OF SIGNALING	VISUAL ZONE INDIC				
PROGRAMMING	Up to 50 built-in S	Security Programs			
FNOORAMMIND	Remote via Infrared Remote Control Unit, Bluetooth™ 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	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 gnerational functional verification				
	Built-in operational functional verification One-touch key reading of inbound, outbound and Security Level Data				
	one-touch key rea	ung ur nuudina, autobuna and Security Level Data			
NSTALLATION DATA	Automatic synchronisation between two or more metal detectors with distance of down to 2" without the use of external cables				
	Automatic Installa	ation function (OTS)			

APPLICATIONS

- ☑ GOVERNMENT BUILDINGS
- ☑ INDUSTRIES (SECURITY)
- ☑ NUCLEAR FACILITIES (SECURITY)
- M PRISONS (VISITORS)
- M PUBLIC EVENTS
- MUSEMENT PARKS
- 🗹 COURTS
- ☑ CRUISE SHIPS
- ☑ DATA PROCESSING CENTERS [EDP]
- 🗹 HOTELS
- SCHOOLS SECURITY

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

- 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 all Airport Security Standards worldwide
- 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



CEIA USA Ltd - 9155 Dutton Drive, Twinsburg OH - 44087 Phone: 330-405 3190 • Fax: 330-405 3196 • E-mail: security@cela-usa.com • Call (833) 224-2342 (CEIA)

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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.

*Data available upon request





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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

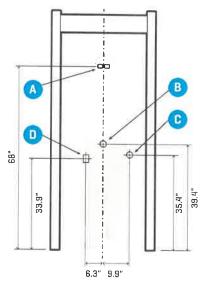
INNOCUOUS ITEMS

TEST POSITIONS



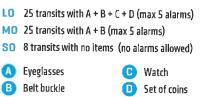
Screwdriver Bit

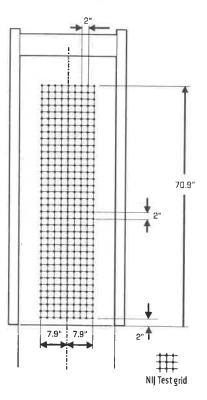
SO LEVEL: SMALL OBJECT SIZE



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:





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.

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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

- 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



ATTACHMENT 1B

VERY HIGH THROUGHPUT

 Cutting-edge discrimination technology allows personal effects to be ignored, creating rapid transit flow

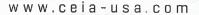
The transit volume magnetic scanning system, invented by CEIA and applied since production of the first zonal Metal Detectors in 1986, allows state-of-the-art detection and discrimination results.

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.



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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.

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

TYPE OF OPERATION	ETHERNET	USB	INFRARED	BLUETOOTH	RS-232
Maintenance	٥	0		•	•
Remote Control	0		•	•	•
Remote Data collection	0				

STANDARD . OPTION O

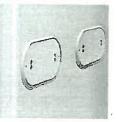
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HIGH PRECISION TRANSIT COUNTER

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



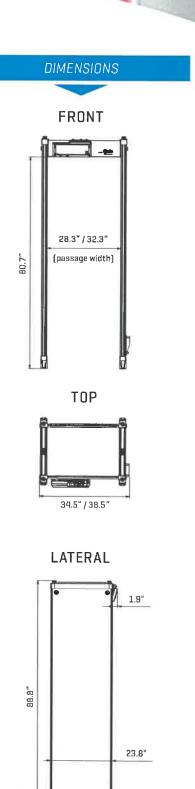
CHIP CARD SYSTEM

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



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 (OTS)	•
Automatic Operational Functional Verification (DFV)	•
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	٠
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
.ong life crossbar battery back-up	0
32.3" useful passage width	0
/ery High precision transit counter (4-beam)	0
STANDARD • OPTION O	



ATTACHMENT 1B

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26"

SMD600 PLUS TWO-IN-ONE METAL DETECTOR

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)

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



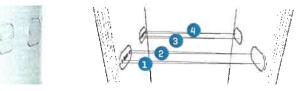


32.3" USEFUL PASSAGE WIDTH

Part # 55635







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ATTACHMENT 1B

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



MBSII-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





IRC-1

Infrared Remote Controller for wireless remote programming of the control unit. Part # 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. 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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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 # 670210]



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 M0 and S0 classes detection capability verification
- Part # EMD-SK-GDML: reference samples for accurate verification of the disassembled guns Security Level



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SMD600 PLUS TWO-IN-ONE METAL DETECTOR



SPECIFICATIONS

KEY FEATURES	Very High Sensit	ivity			
	Excellent discrimination of personal metal effects				
		with, and exceeding, the NIJ-06D1.02 Standard			
	Very high throughput in high security public screening checkpoints				
		hnology 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				
		ces: RS-232, Bluetooth, Infrared. Other available interfaces: Wi-Fi, Ethernet, USB			
QUALITY		diagnostic system			
	Proven reliability				
		libration and preventive maintenance required			
	No scheduled ma				
	Fully digital desir				
WALK-THROUGH		, robust and washable panels			
GATE STRUCTURE					
CENTRAL	Protected against aging, weather and wear Ergonomic and robust design				
CONTROL UNIT					
	High visibility alphanumeric display and programming keyboard Made of advanced plastics or stablaces stopland anti-vandalism construction (contex)				
	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				
SIGNALING	SIGNALS	Multi-zone display bar for "height on person" localization			
		4 light bars with selectable entry/exit and pacing indication			
	AUDIO	Green and red metering signals proportional to the mass of the detected target			
	SIGNALS	10 selectable continuous and pulsed tone plus 34 special tones			
ТҮРЕ	VISUAL	10 selectable sound intensities ranging from 0 to 90 dbA at 1 m			
OF SIGNALING		Fixed or proportional to the mass in transit - visible from 6m under lighting of 4000/ux			
PROGRAMMING	VISUAL ZONE IND	the second second side and tone call side			
RUGRAMMING	Up to 50 built-in security programs (up to 30 International Standards, up to 20 Customizable Levels)				
	Remote via RS-2: interface	32, Infrared Remote Control Unit, Bluetooth ^{1m} 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				
PERATIONAL	Quick reset time as short as 0.2 seconds for high throughput rate				
FEATURES	Very high detection speed (up to 50 ft/sec.)				
	Bullt-in operational and technical functional verification				
	One-touch key reading of inbound, outbound and Security Level Data				
NSTALLATION DATA	Automatic synchronisation between two or more metal detectors with distance as close as 12" without the use of external cables				
	Built-in floor sensitivity adjustment function				
		ation function (DTS)			
		, - · · · · ·			

APPLICATIONS

\mathbf{V}	AIRPORTS
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- ☑ 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



CEIA USA Ltd - 9155 Dutton Drive, Twinsburg OH - 44087 Phone: 330-405 3190 • Fax: 330-405 3196 • E-mail: security@ceia-usa.com * Call (833) 224-2342 (CEIA)

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PD240CB

LONG-RANGE HAND-HELD METAL DETECTION SET

- Long detection range for standoff inspection
- Exceeds the NIJ Standard 0602.02 detection requirements
- Search operations allowed even in close proximity of metal reinforced floors
- Large search area
- Uniform detection of magnetic and non-magnetic targets
- Full Digital Design: consistent performance and calibration-free Operations
- Elegant, robust and ergonomic .
- Indoor and outdoor operations



DUAL-TONE AND **DUAL-COLOR DISPLAY** FOR HIGH PRECISION PINPOINTING

EXCEPTIONAL IMMUNITY TO **ENVIRONMENTAL INTERFERENCE**







®eia:

Threat Detection through Electromagnetics

www.cela.ne

PD240CB LONG-RANGE HAND-HELD METAL DETECTION SET

The PD240CB is a Hand Held Metal Detector that combines high reliability and ergonomics with advanced detection and operator signaling features.

Long detection range for weapons and minimum metal targets, effective sensitivity to all alloys, exceeds the latest Security Standards and has high immunity to external metal masses.

ADVANTAGES & BENEFITS

- Programmable Sensitivity
- Long Detection Range
- Extended Continuous Operation Time
- Automatic Low Power Mode during Screening Pauses
- Embedded Long Life Rechargeable Batteries are renewable energy and eliminate the Operation Cost of Alkaline Batteries
- Embedded Fast and Reliable Battery Charger: no need for removal of batteries
- Dedicated Docking Station acts as Table Stand and Mains connection for Battery Charge
- Operator Functions can be standard or customized by the user through PC GUI and USB connection

ELEGANT, ROBUST AND ERGONOMIC

The PD240CB features a special ergonomic design consisting of an offset hand grip which ensures that the operator's hand does not interfere with the sensitive detection area. Special care has gone into the mechanical design of the detector.

Absence of sharp edges or corners allows the detector to be passed smoothly over the inspected area without getting caught in buttons, buckles, folds or other parts of clothing.

ADVANCED CONTROL PANEL

The control panel with buttons and warning lights is made from high-thickness silicon guaranteeing a high degree of protection to make the *PD240CB* suitable for indoor and outdoor use.

FULLY PROGRAMMABLE SIGNALING

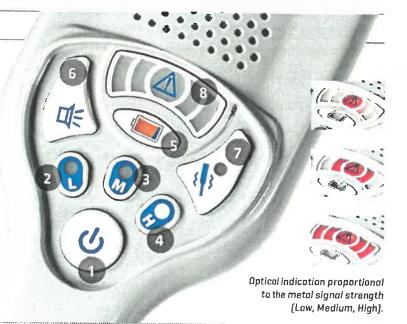
- Proportional/Fixed, High Loudness Acoustic Alarm
- Proportional/Fixed, High Brightness Optical Alarm
- Vibration Alarm for Discrete Screening

Power push button

- L low sensitivity
- Image: Image:
- 4 H high sensitivity
- 6 Battery charge indicator
- 6 Acoustic alarm
- Vibration Alarm

2

8 Visual alarm indicator



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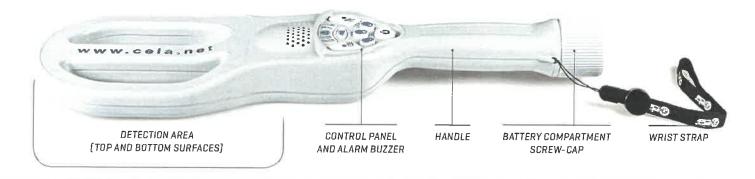
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ATTACHMENT 1B

PD240CB LONG-RANGE HAND-HELD METAL DETECTION SET



NIJ STANDARD 0602.02 COMPLIANT

The technical features of the detector **comply with the NIJ standard 0602.02 and the new NIJ draft standard 0602.03**. The *PD240CB* has uniform sensitivity to magnetic and nonmagnetic targets including those made of stainless steel. At the same time the detector offers excellent body-effect compensation and has high immunity to external disturbance from electromagnetic and mechanical sources.

FULL DIGITAL DESIGN

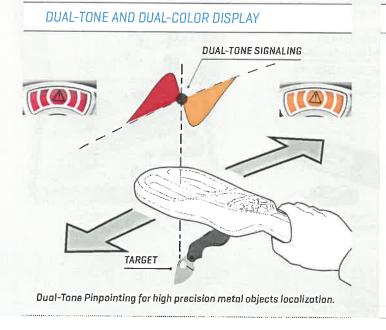
The PD240CB is fully digital. Electronic functions include an inspection field transmitter-receiver based on Digital Signal Processing (DSP) technology, a digital operator interface and external communications over the incorporated USB port.

EXTENDED CONTINUOUS OPERATION TIME

The PD240CB is powered by two AA-size NiMH batteries with a **battery life of over 50 hours**. A Low Power Mode is automatically activated during periods of inactivity, extending the battery life up to 100 hours. An internal circuit optimizes battery recharging which takes less than five hours.

SOPHISTICATED COMMUNICATION CAPABILITIES

The digital design of the new metal detector also enables the **maximum flexibility in selecting how detection alarms are signalled**. Users can keep the factory settings or connect the detector over its USB to a PC and then **personalize the settings with a dedicated graphic interface**.



HIGH IMMUNITY TO ENVIRONMENTAL INTERFERENCES

The PD240CB incorporates innovative technical solutions which make it possible to operate much closer ta floors with steel reinforcement bars than was previously possible with conventional hand-held detectors.

All this without any reduction in sensitivity.



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PD240CB LONG-RANGE HAND-HELD METAL DETECTION SET

SPECIFICATIONS

POWER SUPPLY	2x AA size Ni	MH, rechargeable batteries	
FULLY CUSTOMIZABLE	Optical, acou	stic and vibration alarm modes	
CONTROL PANEL	3-level sensitivity selection buttons		
DETECTION AND OPERATIONAL FUNCTIONS	Customizable	e via HHMD Configuration tool	
BATTERY	Battery life	50 + hours continuous service (AA NiMH batteries 2500 mAh); up to 100 hours with automatic sleep mode	
	Low battery i	ndicator	
	Built-in fast battery charger in combination with the HHDS Docking station		
OPERATING TEMPERATURE	-35°F to 158	٩F	
STORAGE TEMPERATURE	-35°F to 176	PF	
RELATIVE HUMIDITY	0 to 98% (wit	hout condensation]	
DIMENSIONS	PD240CB: 16" x 4.7" x 1.6"		
	HHDS Docking station: 6.9" x 4.5" x 3.4"		
	Carry Bag: 17" x 13.4" x 4.1"		
WEIGHT	PD240CB (with battery): 1.05 lbs		
	HHDS Docking station (with power adapter): 1.6 lbs		
	Carry Bag: 2.9 lbs		
COLOR	PD240CB: ligh	nt grey RAL 7040 - Carry Bag: Green RAL 7013	
MANUFACTURED IN GREY SHOCK	-RESISTANT TEC	HNICAL POLYMERS	
COMPLIANCE	Conforms to t for metal dete	he NIJ 0602.02 and the new NIJ 0602.03 Standards action	
	Conforms to the international standards currently applicable for safety, EMC and to the applicable CE regulations		
ACCESSORIES	Carry Bag: part # 64082		
	NIJ 0602.02 Test Pieces Kit: part # NIJ-HHMD-0602.02 (includes 11 test objects for LO, MO, SO, VSO security levels)		
	HHMD Configu adapter with c	ration tool: part # 63537 (includes special USB able, GUI application software)	





HHMD CONFIGURATION TOOL [# 63537]

ORE	ERING CODE
PD	240CB-SET
SHI	PPING INFORMATION
We Pa	nensions: 17.7" x 12.8" x 4.5" ight: 5.1 ibs ckages for 20 ft container: 960 ckages for 40 ft container: 2016
PD2	40CB-SET: PART LIST
2 6 4 5 6 7	PD240CB Hand Held Metal Detector [batteries included] HHDS Docking station NIJ compliant Calibration Test Piece Universal AC adapter [100-240 Vac, 50-60Hz, 6W] US, EU, UK, JP plugs adapter Wrist strap Instruction manual Quick Reference Guide

PD240CB (# PD240CB-SET)



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