EMIS-MAIL

LETTER BOMB AND IED DETECTOR
FOR MAIL AND PARCEL INSPECTION

CERTIFIED

According to EU Reg. 185/2010
on mail security inspection

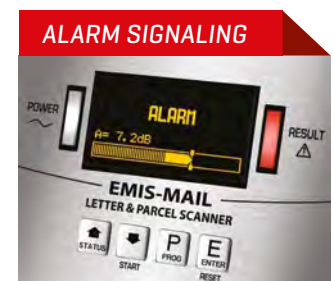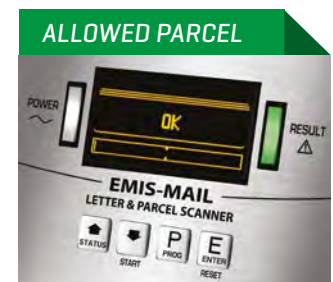**ALLOWED PARCEL**

ALARM SIGNALING

- Automatic inspection of parcels and letters up to 18" in width and 3" thickness
- Detection of detonators, batteries, trigger circuits and other metal components of parcel bombs
- No alarm on metal staples, paper-clips and metal binding spirals

- Ergonomic, compact design
- Operates on the mains power supply and with NiMH rechargeable batteries (optional)
- Integrated battery charger
- No calibration or periodic maintenance required
- Optional embedded detector of radioactive materials

Scan QR code to see the EMIS-MAIL video

CEIA USA

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Threat Detection through Electromagnetics

SPECIFICATIONS

KEY FEATURES	High inspection speed	
	No alarm on metal staples, paper-clips and metal binding spirals	
	Digital programming with high-resolution OLED graphic display	
	Optical and acoustic alarm signaling	
	Integrated autodiagnosis system	
	Permanent memory storage of operating parameters without back-up batteries	
	Independent operation, with mains power supply or batteries (optional)	
	Specific Settings available for Prison parcels inspection (Dept. of Justice requirements)	
	Compliant with NIJ-0602.02 Dept. of Justice Detection requirements	
STRUCTURE	Transit opening	18" x 3" (450 mm x 75 mm)
	Degree of protection	IP40
DIMENSIONS	WxDxH: 18.1" x 22" x 10" (450 mm x 565 mm x 250 mm)	
WEIGHT	35 lbs (16 kg)	
POWER SUPPLY	Voltage	100-240 V~ single-phase – 50/60 Hz with external AC/DC adapter
	Current	1.07 A max
	Battery operation (optional)	6 x 1.2V NiMH size D
		Battery life: 12 hours
		Battery-charger incorporated: recharging time 6 hours
PROGRAMMING	Type	Local: via integrated keypad
		Remote: via Bluetooth, RS232
	Data Logger Memory capacity	10,000 events
SIGNALING	Acoustic	Internal buzzer
	Optical	High-contrast OLED graphic display with bar-graph indication
		LED indicators on the control panel — RED: Alarm, Autodiagnosis
		GREEN: OK, Power supply
		BLUE: Alarm, detection of radioactive substances
SECURITY/SAFETY	Access to programming protected by password	
	Insulation from mains voltage	
COMMUNICATION	Incorporated Bluetooth (FCC ID: QOQWT12 - IC:5123A-BGTWT12A) interface, RS232	
ENVIRONMENTAL DATA	Temperature	Operating — 14°F to 122°F (-10 to +50 °C)
		Storage — -13°F to 140°F (-25 to +60 °C)
	Relative humidity	5 to 90 %, without condensation
CONFORMITY*	SAFETY	EN61010-1
		ACGIH, 2014 Threshold Limit Value (TLV)
		IEEE C95.1-2005
		EC-Rec. 1999/519/EC
		EN 50364:2010
	EMC	EN61000-6-1
*Test Reports available upon request		EN61000-6-3
	RED	EN300330: Short Range Devices (SRD)
NATO STOCK NUMBER	6665150105807	

HI-PE Plus

EVENT SECURITY
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

60 LOCALIZATION ZONES
- *20 VERTICAL*
- *3 LATERAL*

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Threat Detection through Electromagnetics

CERTIFIED SAFETY ACT
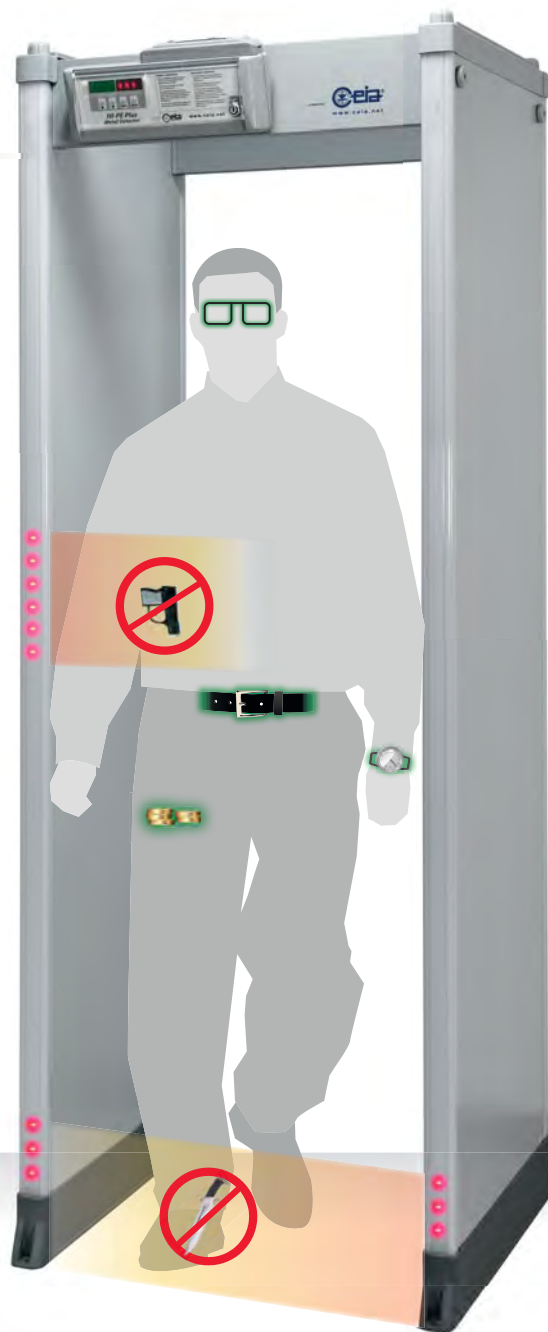
Metal Detectors for event security have to offer extremely high performance in terms of detection capability and transit flow, *and need to be particularly compact to allow them to be transported, installed and, at the end of the operation, removed easily.*

BENEFITS

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 *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.

ALARM

NO ALARM

60 LOCALIZATION ZONES WITH LEFT, CENTER AND RIGHT INDICATION

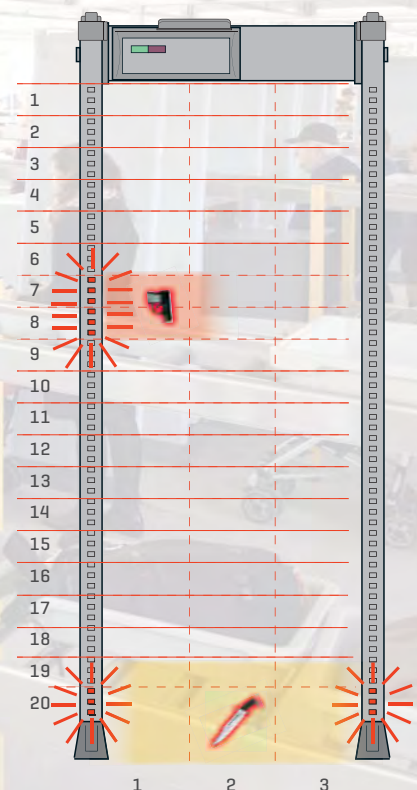*The **HI-PE Plus Multi-Zone Metal Detector** provides accurate detection of all metals, high level of discrimination of non-threat items, full compliance with the latest Security Standards and exceptional immunity to external interferences.*

UNIQUE ALARM SIGNALING

PROGRAMMABLE DISPLAY BARS

- 4 Multi-Zone Display Bars, each programmable as entry Stop/Go and/or local alarm indication

- 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.

Accurate signaling is essential for best operation and flow management.

INTENSITY LEVELS

- 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.

BIDIRECTIONAL COUNTER

- High Precision Transit Counter:
  - ☑ In-Bound Transits
  - ☑ Out-Bound Transits
  - ☑ Alarm Rate
  - ☑ Automatic Compensation for repeated transits of the same person

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

HIGH PRECISION TRANSIT COUNTER

Two photocells fitted into the archway allow counting of transits, alarms and percentage of alarms.

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.

POWERFUL AND VERSATILE SECURITY FEATURES

30 IS
20 Custom

SECURITY
LEVELS

- Up to 50 built-in Security Programs
  - ☑ Up to 30 International Standards
  - ☑ Up to 20 Customizable Levels

CHIP CARD
SYSTEM

- 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

RAPID INSTALLATION

ONE TOUCH
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

EXCEPTIONAL IMMUNITY
TO ENVIRONMENTAL
INTERFERENCES

COMMUNICATION CAPABILITIES

TYPE OF OPERATION	Ethernet	USB	Infrared	Bluetooth	RS-232
Maintenance	☐	☐		■	■
Remote Control	☐		■	■	■
Remote Data collection	☐				

■ STANDARD   ☐ OPTION

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MODEL CONFIGURATION

| FEATURES	HI-PE Plus/PZ
Compliant with the strictest detection and discrimination standards for EMDs	■
4 display bars programmable as zone indicators and/or pacing lights	■
60 localization zones (20 vertical x 3 lateral) with left, center and right indication	■
Chip Card Reader	■
Bluetooth and infrared communication	■
High precision transit counter	■
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 Acquisition (FGA)	■
Automatic Technical Functional Verification (TFV)	■
Automatic Environmental Noise Compensation (ENA)	■
Powered by safe low voltage DC	■
Anti-tamper on/off switch	■
IP65 protection (IP65 control unit, IP68 power supply adapter, anti-vandalism protections, weatherproof gate structure, compliant with IEC 60950-22)	☐
Crossbar battery back-up	☐
Integrated web-server & logger (includes Ethernet and USB interface)	☐
32.3" useful passage width	☐

■ STANDARD   ☐ OPTION

DIMENSIONS

88.8"
80.7"
28.3" / 32.3" (passage width)
23.8"
32.8" / 36.8"

TOP VIEW

Ø 1/4"
28"
30.3" / 34.3"
34.5" / 38.5"
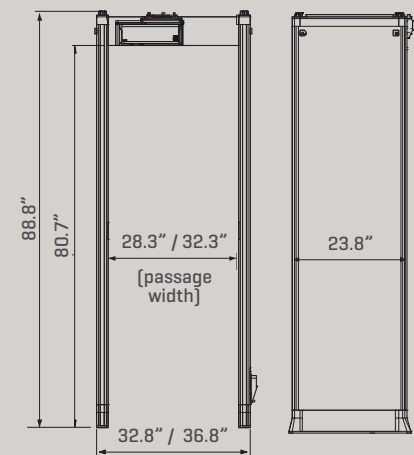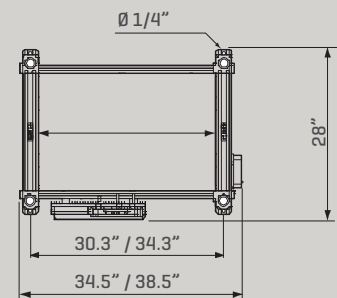
FRONT & LATERAL VIEW

OPTIONS / UPGRADE KITS

‣ **IP65 PROTECTION**

This option includes the IP65 control unit, IP68 power supply adapter, anti-vandalism protections, and weatherproof gate structure according to IEC 60950-22:

• 28.3" passage width (part # 55631);
• 32.3" passage width (part # 55632)

‣ **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

‣ **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

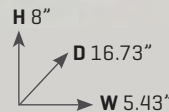‣ **32.3" USEFUL PASSAGE WIDTH**

Part # 55635

ACCESSORIES

▸ **LONG LIFE BATTERIES**

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

- 12 hours typical (up to 18 h) continuous operation with *HI-PE Plus*
- 5.5 hours typical charging time.

Part # MBSU-2

H 8"
D 16.73"
W 5.43"

▸ **IRC-1**

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

Part # 47180

▸ **TOP POWER ADAPTER (QUICK DISCONNECT)**

Cable to connect power supply to the top of the HI-PE Plus.

Part # 64228 (33 ft) - 68346 (65 ft)

▸ **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:

Part # 23870, 64435

▸ **CHIP CARDS**

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

▸ **OUTDOOR DIVESTING TABLE**

In combination with CEIA Walk-Through Metal Detectors, it is a temporary location of personal metal effects for people to be screened.

Part # 67021U

▸ **WHEEL KIT - SHORT RANGE**

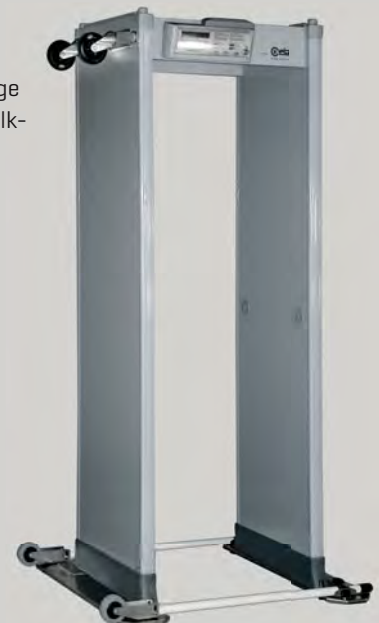For short range movement of the panel walk-through metal detector.

Part # 75459U

▸ **WHEEL KIT - LONG RANGE**

For heavy duty, longer range movement of the panel walk-through metal detector.

Part # 70796

SPECIFICATIONS

FEATURES		
	Wide range of threat detection from guns to ½ cutter blade	Automatic Environmental Noise Compensation (ENA)
	Excellent discrimination of personal metal effects	Met-Identity technology identifies and signals the metal type
	60 localization zones (20 vertical x 3 lateral) with left, center and right indication	High precision bidirectional counter with automatic rescreening compensation
	One touch automatic self installation (OTS)	Chip Card capability for fast and secure programming
	Automatic Operational Functional Verification (OFV)	Random alarm capability programmable from 0% to 100%
	Automatic Vibration Compensation (AVS,EVA)	Exceptional Immunity to external interferences
	Automatic Channel Search (CS)	Powered by safe low voltage DC
	Automatic Floor Gain Acquisition (FGA)	Standard Interfaces: RS-232, Bluetooth, Infrared
	Automatic Technical Functional Verification (TFV)	Other available interfaces: Wi-Fi, Ethernet, USB
QUALITY	Continuous self diagnostic system	No scheduled maintenance
	Proven reliability	Fully digital design
	No periodic re-calibration and preventive maintenance required	
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 19 ft under lighting of 4000lux
	VISUAL ZONE INDICATION: 60 distinct zones (20 vertical x 3 lateral) entry and 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) 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	Very 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 operational 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 of down to 2" without the use of external cables	
	Automatic Installation function (OTS)	

ENVIRONMENTAL DATA

- POWER SUPPLY : 100...240V~ -10/+15%, 47...63Hz, 40 VA max
- OPERATING TEMPERATURE: -4°F to 158°F (-35°F to 158°F upon request)
- STORAGE TEMPERATURE: -35°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
- 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 (CDs, tapes...)

COMPREHENSIVE SUPPORT

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

- 24 x 7 phone technical support
- in-house and on-site repair/services
- standard and custom training

MSD

HIGHLY PORTABLE **CELL PHONE, FERROUS WEAPON** AND **CONTRABAND DETECTOR**

- **Detection of all cell phones** and **other ferrous contraband** concealed on the person or in body cavities (including **keyfob cell phones**, **smart phones**, **radio transceivers**, etc.)

- **Constant Sensitivity across the detection area** in pass-through operations

- **Multi-Zone targeting indication** identifies location of contraband on the body

- Covert operation through use of Bluetooth headset

- Fully weather proof for outdoor use (IP65 certified)

- 26 hours continuous operation

- Unmatched detection in all environments without adjustment

- Extremely durable design

- No assembly required: set-up in less than 10 seconds

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FERROMAGNETIC DIVISION

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The illegal use of cell phones is a growing and dangerous problem in correctional institutions worldwide. These devices are a significant threat to prison security and circumvent the monitoring processes in prisons, while allowing inmates to commit new crimes both inside and outside the facility.

The MSD was specifically designed to detect all cell phones and ferrous contraband concealed on the person or in body cavities (including key fob cell phones, smart phones, radio transceivers, etc.) quickly and easily.

The one-piece design allows the MSD to be easily transported and operational in 10 seconds.

BENEFITS

- Detection of magnets and ferromagnetic metals
- Full-height, 360° detection (horizontal & vertical)
- 5 individual zones for pinpointing locations of contraband on the body
- Covert operation through use of Bluetooth headset
- Fully weather proof for outdoor use
- 24 hours typical / 26 hours max. of continuous battery operation with 4.5 hours charge
- One-piece and lightweight design (total weight only 21 lbs with batteries included) easily transportable by one person
- Unmatched detection in all environments without adjustment
- Extremely durable design using stainless steel and high impact reinforced plastics
- Anti-tip suction cups for securing to smooth floor surfaces (included)
- Non-emitting device: safe for use for pace-makers and other medical implants
- Throughput: 60+ people per minute (based on uninterrupted flow, separately alarms resolution)

GRAPHIC DISPLAY

ALARM INDICATOR

POWER INDICATOR

4 KEY KEYPAD

CARRYING CASE FOR PERSONAL TRANSPORT AND STORAGE

- Heavy-duty lightweight carry system
- Custom fit to the MSD shape
- Dedicated pocket for accessories
- Space–saving
- Included parts:
  ‣ MSD Ferromagnetic Detector unit
  ‣ Test sample
  ‣ External AC/DC battery charger adapter
  ‣ Carrying case

*CARRYING CASE STORES **ALL INCLUDED PARTS***

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MSD EVO™ OPTION

Even though the MSD is typically used as a stand-alone single pole, the **new MSD Pass-through configuration** with **EVO option** defines now the possibility to operate on a transit width **up to 51" with constant detection sensitivity from pole to pole**. Moreover, **this new uniform solution allows** the reliable screening of in-mates transiting through a corridor, the surveillance of large transit openings and an extremely accurate investigation of mattresses and other objects that could hide contraband.

MSD EVO™ PASS-THROUGH CONFIGURATION

The MSD EVO pass-through configuration operates on a transit width up to 51" with constant detection sensitivity from pole to pole.

Accurate investigation of mattresses and other objects that could hide contraband.

BRIGHT MULTI-COLOR STATUS INDICATOR

GREEN LIGHT

Normal operation, no detection.

YELLOW LIGHT

Warning proportional indication: target detection under the alarm threshold.

RED LIGHT

Alarm proportional indication: target detection over the alarm threshold.

BLUE LIGHT

Connecting Bluetooth device in progress.

COVERT ALARM SIGNALING VIA BLUETOOTH HEADSET (OPTIONAL)

Warning indication for signal under the alarm threshold, with fixed or proportional pitch

Match each single MSD unit or MSD EVO pass-through gate

Alarm indication for signal over the alarm threshold, with fixed or proportional pitch

Warning and alarm indications adjustable in continuous/pulsed tone and volume

Low battery: double beep

Self-diagnosis alert: intermittent tone

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.

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MSD SPECIFICATIONS

CONTROLS AND INDICATORS	ON/OFF push-button	
	4-key keypad, for programming and status readout	
	SECURITY	• Programming Access protected by User and Super User password
	POWER INDICATOR	• White lamp
	GRAPHIC DISPLAY	• Messages during use, programming and self-diagnosis alerts
	MULTI-COLOR STATUS INDICATOR	**GREEN LIGHT** • Normal operation, no detection **YELLOW LIGHT** • Proportional target detection under the alarm threshold **RED LIGHT** • Continuous light: target detection over the alarm threshold • 5 different zone indication • Blinking light: fault **BLUE LIGHT** • Connecting Bluetooth device in progress
	ALARM SOUNDER	• Alarm indication for target over the alarm threshold, with fixed or proportional pitch • Warning and alarm indications adjustable in continuous/ pulsed tone and volume • Battery low: double beep • Self-diagnosis alert: intermittent tone
	BLUETOOTH HEADSET	• Warning indication for target under the alarm threshold, with fixed or proportional pitch • Alarm indication for target over the alarm threshold, with fixed or proportional pitch • Warning and alarm indications adjustable in continuous/ pulsed tone and volume • Battery low: double beep • Diagnosis: intermittent tone
POWER SUPPLY	AC/DC external power adapter	100 … 240 V~ , 47…63Hz, 40W
	Embedded rechargeable battery	16h typical / 17h max. of continuous operation with 3 h battery charge
		24h typical / 26h max. of continuous operation with 4.5 h battery charge
DETECTOR ENVIRONMENTAL CONDITIONS	Working temperature	14 to 149°F
	Storage temperature	-35 to 158°F
	Relative humidity	0 to 95%, non-condensing

WEIGHT	• MSD: 21 lbs	• AC/DC adapter: 1.6 lbs	• Bluetooth kit: 0.5 lbs (includes battery charger)
	• Carrying case: 1.5 lbs	• Installation kit: 0.6 lbs	

|		
MSD DIMENSIONS	Height: 75"	Width: 13"
SHIPPING INFORMATION	Dimensions (WxDxH)	16" x 79" x 19"
	Weight	53 lbs
DETECTOR DEGREE OF PROTECTION		Fully weather proof for outdoor use (IP65)
AVAILABLE ACCESSORIES	EVO function activation: ordering code 88918	
	Bluetooth audio function activation, headset and charger: ordering code 88919	
	MSD-RRU Remote Relay Unit: ordering code MSD-RRU	
	Wall mounting kit: ordering code 67258	
	Solid Rubber feet and tools for uneven floor: ordering code 88917	
CERTIFICATION AND COMPLIANCE	Non-emitting device: safe for use for pace-makers and other medical implants	
	Compliant and certified to the applicable electromagnetic Standards on Human Exposure and pacemaker safety	
	Compliant with and certified to the applicable International Standards for electrical safety and EMC	

PASS-BY OPERATIONS

PASS-THROUGH OPERATIONS

31.5" ÷ 51"
[800 mm ÷ 1300 mm]
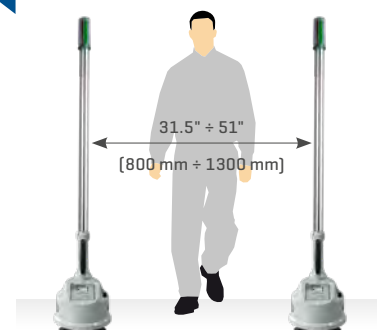
HORIZONTAL OPERATION

WALL MOUNTING KIT
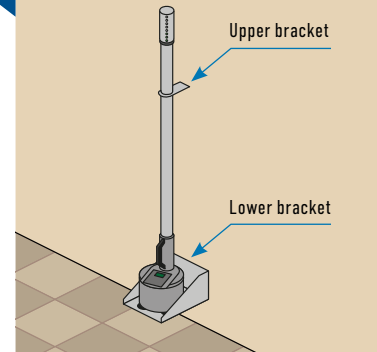
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PD140E

NEW GENERATION COMPACT HAND HELD METAL DETECTION SET

NIJ-0602.02 Compliant

FEATURES

- NIJ Standard - 0602.02 Compliant

- Compact, Elegant, Robust and Ergonomic

- Uniform Detection of Magnetic and Non-Magnetic Targets

- Full Digital Design: Consistent Performance and Calibration-Free Operations

- Extended Continuous Operation Time

- Programmable Sensitivity

- Indoor and Outdoor Operations

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APPLICATIONS

- ☑ GOVERNMENT BUILDINGS
- ☑ AIRPORTS
- ☑ CORRECTIONAL FACILITIES
- ☑ LAW ENFORCEMENT
- ☑ NUCLEAR FACILITIES
- ☑ LOSS PREVENTION
- ☑ PUBLIC EVENTS
- ☑ SCHOOLS SECURITY

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ISO 9001 CERTIFIED

Threat Detection through Electromagnetics

The **PD140E** is a Hand Held Metal Detector that combines high reliability and ergonomics with advanced detection and operator signaling features.

Effective sensitivity to all metals, full compliance with the latest Security Standards and high immunity to external metal masses are among the main peculiarities of this device.

☑ COMPACT, ELEGANT, ROBUST AND ERGONOMIC

The **PD140E** 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.

☑ 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 **PD140E** has uniform sensitivity to magnetic and non-magnetic 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 **PD140E** is fully digital. Electronic functions include a magnetic field transmitter-receiver based on Digital Signal Processing (DSP) technology. This design, combined with a special printed antenna, ensures consistent performance, very high reliability and calibration-free operations.

☑ LATEST PLASTIC MATERIALS TECHNOLOGY

The metal detector casing is made from next-generation technical polymers. These plastics offer high chemical resistance and mechanical strength ensuring a long detector life even in heavy duty conditions.

☑ ADVANCED ALARM INDICATION

The alarm signalling modes include: optical alarm proportional to the intensity of the detection signal; acoustic alarm with a tone which is proportional to the size of the object detected; vibration alarm signal.
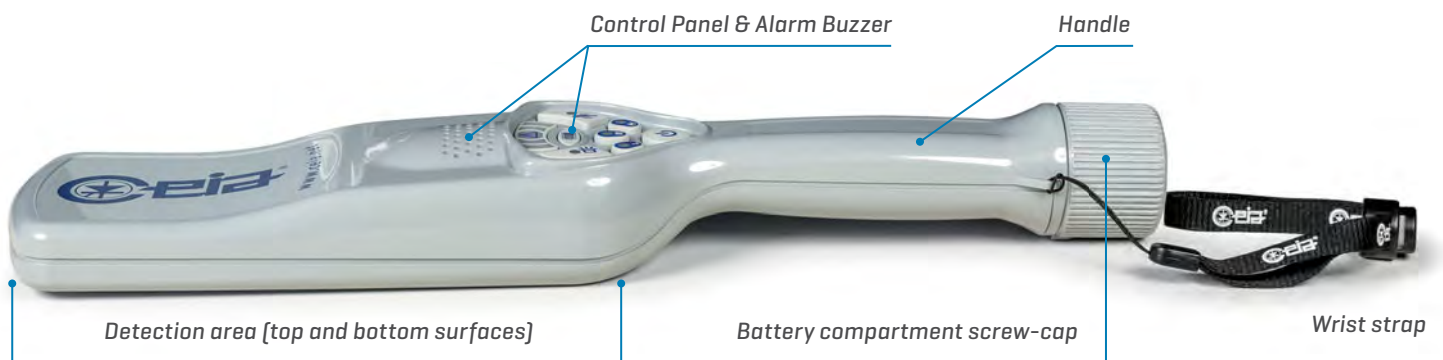
FULLY PROGRAMMABLE SIGNALING

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

A	Power push button
B **C**	Alarm Mode selection
D **E** **F**	Sensitivity selection: • Low • Medium • High
G	Alarm indicator
H	Battery charge indicator

Optical indication proportional to the metal signal strength (Low, Medium, High)

Control Panel & Alarm Buzzer   Handle

Detection area (top and bottom surfaces)   Battery compartment screw-cap   Wrist strap

SPECIFICATIONS

POWER SUPPLY	2x AA size alkaline or NiMH rechargeable batteries
FULLY CUSTOMIZABLE CONTROL PANEL	Optical, acoustic and vibration alarm modes
	3-level sensitivity selection buttons
BATTERY	Battery life: 100 + hours continuous service (AA alkaline batteries)
	Low battery indicator
OPERATING TEMPERATURE	-40°F to 158°F
STORAGE TEMPERATURE	-40°F to 176°F
RELATIVE HUMIDITY	0 to 98% (without condensation)
DIMENSIONS	14.2" x 3.2" x 1.6"
WEIGHT	0.85 lbs (with battery)
COLOR	Light grey RAL 7040
MANUFACTURED IN GREY SHOCK-RESISTANT TECHNICAL POLYMERS	
COMPLIANCE	Conforms to the NIJ 0602.02 Standard and the NIJ 0602.03 Draft for metal detection
	Conforms to the international standards currently applicable for safety, EMC and to the applicable CE regulations

SHIPPING INFORMATION

PACKAGE DIMENSIONS	16" x 2.8" x 5" (WxDxH)
PACKAGE WEIGHT	1.2 lbs

ORDERING INFORMATION

PD140E   part # PD140E

PART LIST

1	PD140E Hand Held Metal Detector (batteries not included)
2	Wrist strap
3	Quick Reference Guide
4	Package

ACCESSORIES

NIJ 0602.02 TEST PIECES KIT
(part # NIJ HHMD-0602.02)

Includes 11 test objects for LO, MO, SO, VSO security levels. Test pieces are manufactured according to NIJ 0602.02 specifications and electromagnetically certified.

BELT HOLSTER
(part # 64614)

TEST SAMPLE
(part # 61256)

AA size Alkaline Batteries
(part # 64681)

HHMD-6: *SIX HAND HELD METAL DETECTOR SET*

FEATURES

- Fast deployment of six HHMDs set

- Minimum space requirement for multiple HHMDs transport

- Lightweight and robust construction

- Alkaline batteries and test pieces included

- Size compliant with requirement for transport in air carries cabins

- Weather-Resistant

APPLICATIONS

- Special Forces

- Police, Army

- High mobility applications

ORDERING INFORMATION

HHMD-6 part # HHMD-6/PD140E

SET GENERAL FEATURES

External dimensions	17" x 7.5" x 12" (WxDxH)
Weight (including Detectors)	8.5 lbs

PART LIST		QT.
1	PD140E Hand Held Metal Detectors	6
2	NIJ compliant Calibration Test Piece	2
3	Alkaline Batteries	12 (24)*
4	Quick Reference Guide	1
5	Carry Bag	1

* Upon request

CEIA USA

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DP100K0009V2000uUS

NSN: 6665150114797

PD240

WIDE SEARCH AREA
HAND-HELD METAL DETECTION SET

- Wide Search Area for Faster and Accurate Screening Operations

- Search operations allowed even in close proximity of metal reinforced floors

- Uniform detection of magnetic and non-magnetic targets

- Full Digital Design: consistent performance and calibration-free Operations

- Detection of radioactive substances and materials (option)

- Elegant, robust and ergonomic

- Indoor and outdoor operations

NIJ STANDARD – 0602.02 COMPLIANT

RENEWABLE ENERGY

GSA Contract Holder

CERTIFIED SAFETY ACT

CEIA® USA

w w w . c e i a - u s a . c o m

Threat Detection through Electromagnetics

The PD240 is a Hand Held Metal Detector that combines high reliability and ergonomics with advanced detection and operator signaling features.

Effective sensitivity to all metals, full compliance with the latest Security Standards and high immunity to external metal masses are among the main peculiarities of this new device.

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

RENEWABLE ENERGY

ELEGANT, ROBUST AND ERGONOMIC

The *PD240* 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 *PD240* **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

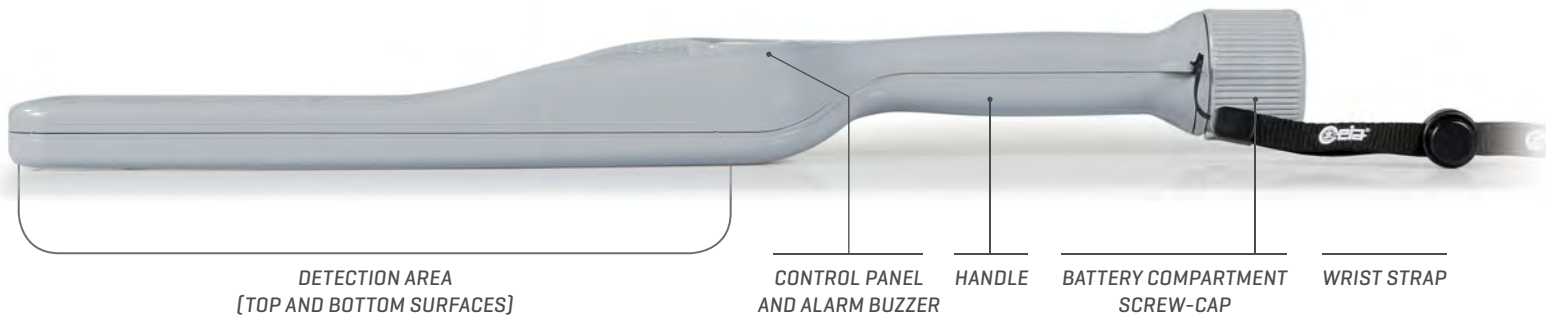*Optical indication proportional to the metal signal strength (Low, Medium, High).*

Optical indication proportional to the radioactive substance signal strength.

1. Power push button
2. **L** low sensitivity
3. **M** medium sensitivity
4. **H** high sensitivity
5. Battery charge indicator
6. Acoustic alarm
7. Vibration Alarm
8. Visual alarm indicator

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DETECTION AREA
[TOP AND BOTTOM SURFACES]

CONTROL PANEL
AND ALARM BUZZER

HANDLE

BATTERY COMPARTMENT
SCREW-CAP

WRIST STRAP

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 *PD240* has uniform sensitivity to magnetic and non-magnetic 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.

EXTENDED CONTINUOUS OPERATION TIME

The *PD240* is powered by two AA-size NiMH batteries with a **battery life of over 100 hours**. A Low Power Mode is automatically activated during periods of inactivity, extending the battery life up to 200 hours. An internal circuit optimizes battery recharging which takes less than five hours.

FULL DIGITAL DESIGN

The *PD240* 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.

This **design combined with a special printed antenna ensures top reliability and very high repeatability**.

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 FLOOR REBARS

The PD240 incorporates innovative technical solutions which make it possible to operate much closer to floors with steel reinforcement bars than was previously possible with conventional hand-held detectors. All this without any reduction in sensitivity.

MAIN MENU

SPECIFICATIONS

POWER SUPPLY	2x AA size NiMH, rechargeable batteries
FULLY CUSTOMIZABLE CONTROL PANEL	Optical, acoustic and vibration alarm modes
	3-level sensitivity selection buttons
DETECTION AND OPERATIONAL FUNCTIONS	Customizable via HHMD Configuration tool
BATTERY	Battery life 100 + hours continuous service (AA NiMH batteries 2500 mAh); up to 200 hours with automatic sleep mode
	Low battery indicator
	Built-in fast battery charger in combination with the HHDS Docking station
OPERATING TEMPERATURE	-40°F to 158°F
STORAGE TEMPERATURE	-40°F to 176°F
RELATIVE HUMIDITY	0 to 98% (without condensation)
DIMENSIONS	*PD240*: 17" x 3.1" x 1.6"
	HHDS Docking station: 6.9" x 4.5" x 3.4"
	Carry Bag: 17" x 13.4" x 4.1"
WEIGHT	*PD240* (with battery): 1.04 lbs
	HHDS Docking station (with power adapter): 1.6 lbs
	Carry Bag: 2.9 lbs
COLOR	PD240: light grey RAL 7040 - Carry Bag: Green RAL 7013
MANUFACTURED IN GREY SHOCK-RESISTANT TECHNICAL POLYMERS	
COMPLIANCE	Conforms to the NIJ 0602.02 and the new NIJ 0602.03 Standards for metal detection
	Conforms to the international standards currently applicable for safety, EMC and to the applicable CE regulations

APPLICATIONS		
	Airport	Correctional Facilities
	Law Enforcement	Government Buildings
	Nuclear Facilities	Public Events
	Loss Prevention	Schools Security

ORDERING CODE

PD240	Part # PD240-SET

SHIPPING INFORMATION

Dimensions:	17.7" x 12.8" x 4.5"
Weight:	4.85 lbs

PD240-SET: PART LIST

1. *PD240* Hand Held Metal Detector (batteries included)
2. HHDS Docking station
3. Coupling pins for side-by-side docking station placement
4. NIJ compliant Calibration Test Piece
5. Universal AC adapter (100-240 Vac, 50-60Hz, 6W)
6. US, EU, UK, JP plugs adapter
7. Wrist strap
8. Instruction manual
9. Quick Reference Guide

ACCESSORIES

‣ **CARRY BAG**

(part # 64081)

‣ **NIJ 0602.02 TEST PIECES KIT**

Includes 11 test objects for LO, MO, SO, VSO security levels. Test pieces are manufactured according to NIJ 0602.02 specifications and electromagnetically certified.

(part # NIJ-HHMD-0602.02)

‣ **BELT HOLSTER**

(part # 64614)

‣ **HHMD CONFIGURATION TOOL**

Allows the connection of the Metal Detector to PC, via USB port. Includes special USB adapter with cable, GUI application software, tool for battery cap removal.

(part # 63537)

‣ **CIGARETTE LIGHTER CABLE FOR BATTERY CHARGER**

(part # 64436)

HHDS-5

FIVE HAND-HELD METAL DETECTOR DOCKING STATION

EQUIPMENT INFORMATION

Power supply:
100-240 Vac, 50-60Hz, 30W
Dimensions (WxH): 25" x 2.8"

SHIPPING INFORMATION

Dimensions (WxDxH): 28" x 13.8" x 4.3"
Weight: 7.3 lbs

PART LIST

1 Five Hand Held Metal Detector docking station base

2 Universal AC adapter

3 US, EU, UK, JP plugs adapter

4 Quick Reference Guide

FEATURES

- Simultaneous charge of multiple HHMDs
- Single mains socket installation
- Minimum space requirement
- Monolithic, high mechanical stability

APPLICATIONS

- Public Events
- Stadiums and Sport Arenas
- Conventions
- Multiple lane screening

CEIA USA Ltd - 9155 Dutton Drive, Twinsburg OH - 44087
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www.ceia-usa.com

PD240CB

LONG-RANGE HAND-HELD
METAL DETECTION SET

NEW

- 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*

GSA Contract Holder

CERTIFIED SAFETY ACT

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www.ceia-usa.com

Threat Detection through Electromagnetics

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

RENEWABLE ENERGY

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.
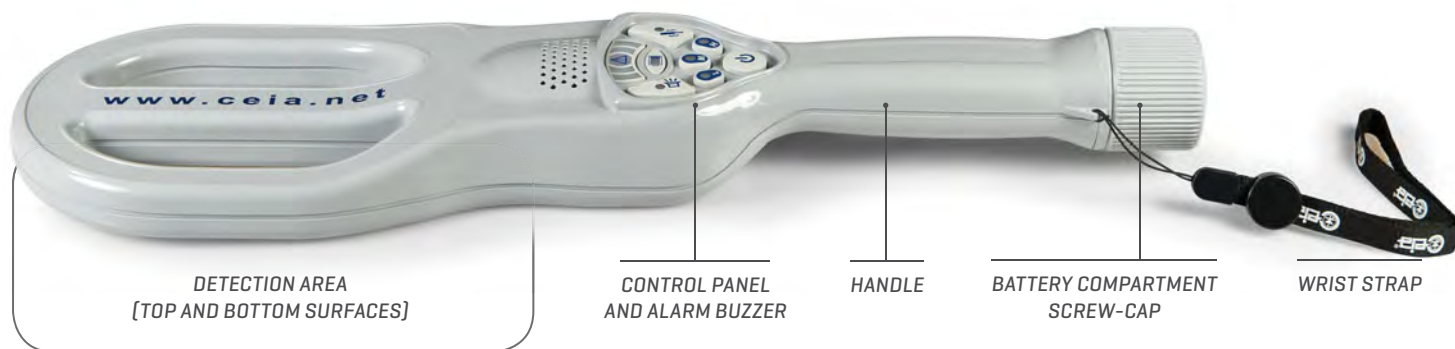
FULLY PROGRAMMABLE SIGNALING

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

  1. Power push button
  2. **L** low sensitivity
  3. **M** medium sensitivity
  4. **H** high sensitivity
  5. Battery charge indicator
  6. Acoustic alarm
  7. Vibration Alarm
  8. Visual alarm indicator

Optical indication proportional to the metal signal strength [Low, Medium, High].

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DETECTION AREA
(TOP AND BOTTOM SURFACES)

CONTROL PANEL
AND ALARM BUZZER

HANDLE

BATTERY COMPARTMENT
SCREW-CAP

WRIST STRAP

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 non-magnetic 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**.

DUAL-TONE AND DUAL-COLOR DISPLAY

DUAL-TONE SIGNALING

TARGET
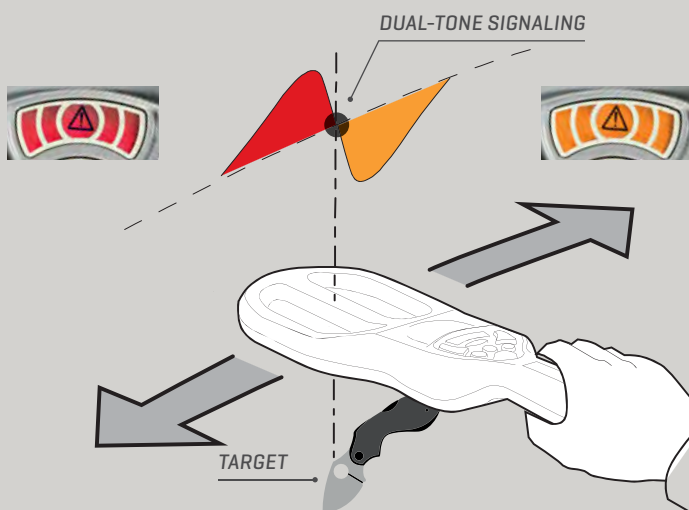
Dual-Tone Pinpointing for high precision metal objects localization.

HIGH IMMUNITY TO ENVIRONMENTAL INTERFERENCES

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

All this without any reduction in sensitivity.

SPECIFICATIONS

POWER SUPPLY	2x AA size NiMH, rechargeable batteries
FULLY CUSTOMIZABLE CONTROL PANEL	Optical, acoustic and vibration alarm modes
	3-level sensitivity selection buttons
DETECTION AND OPERATIONAL FUNCTIONS	Customizable 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 indicator
	Built-in fast battery charger in combination with the HHDS Docking station
OPERATING TEMPERATURE	-35°F to 158°F
STORAGE TEMPERATURE	-35°F to 176°F
RELATIVE HUMIDITY	0 to 98% (without 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: light grey RAL 7040 - Carry Bag: Green RAL 7013
MANUFACTURED IN GREY SHOCK-RESISTANT TECHNICAL POLYMERS	
COMPLIANCE	Conforms to the NIJ 0602.02 and the new NIJ 0602.03 Standards for metal detection
	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 Configuration tool: part # 63537 (includes special USB adapter with cable, GUI application software)

ORDERING CODE

PD240CB-SET

SHIPPING INFORMATION

Dimensions: 17.7" x 12.8" x 4.5"
Weight: 5.1 lbs
Packages for 20 ft container: 960
Packages for 40 ft container: 2016

PD240CB-SET: PART LIST

1. *PD240CB* Hand Held Metal Detector (batteries included)
2. HHDS Docking station
3. NIJ compliant Calibration Test Piece
4. Universal AC adapter (100-240 Vac, 50-60Hz, 6W)
5. US, EU, UK, JP plugs adapter
6. Wrist strap
7. Instruction manual
8. Quick Reference Guide

CARRY BAG (# 64082)

HHMD CONFIGURATION TOOL (# 63537)

PD240CB (# PD240CB-SET)

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PMD2 Plus Elliptic

EVENT SECURITY
MULTI-ZONE METAL DETECTOR

- Accurate Detection of all Metallic Threat Items

- High Discrimination and Throughput

- Exceptional Immunity to external interferences

- Compliant with the strictest Security Standards for weapons detection

- Unmatched Reliability

- Aesthetic, Unobtrusive and Light Weight

- Rapid Installation

- Weather Resistant

PMD2 Plus Elliptic provides fast and effective security without detracting from the visitor experience.

GSA Contract Holder

CEIA®USA

w w w . c e i a - u s a . c o m

Threat Detection through Electromagnetics

CERTIFIED SAFETY ACT

*Strict requirements and detection needs call for security checkpoints to perform efficiently even under very challenging conditions. **Choosing the right metal detector is essential**.*

***The PMD2 Plus Elliptic is ideal for checkpoint locations** that require rapid installation and features weather-resistant protection and ease of system use for screening personnel.*

CEIA SECURITY CHECKPOINT BENEFITS

✓ Consistent Screening Across all Checkpoints

✓ Ease of Installation and Set Up

✓ Ease and Speed of System Use with Limited Screener Training Required

✓ Faster, More Accurate and Less Intrusive Fan Screening

✓ Fully Operational Anywhere

✓ Durability and Mobility

✓ Weather-resistance for outdoor operation

UNMATCHED THROUGHPUT

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

ALARM

NO ALARM

*The **PMD2 Plus Elliptic** is capable of detecting a large range of threat objects composed of magnetic, non-magnetic and mixed alloys.*

*The selected version is an **elliptic column, which is designed for sheltered outdoor venue applications**. The system will be delivered as a weatherproof unit.*

VERY HIGH SENSITIVITY

UNMATCHED DISCRIMINATION

ENVIRONMENTAL IMMUNITY

HIGH RESOLUTION AND PRECISION

DETECTION

- Quick, accurate analysis of all parts of the body of people in transit, from the shoe level to the crossbar

- Pre-set Security Programs based on actual Government Standards

- Guaranteed coverage for all orientations and locations, never in need of calibration

DISCRIMINATION

- CEIA's advanced WTMD software and antenna design allows a vast majority of everyday items through the detector without alarming

- No need to remove items such as belts, coins, keys, jewelry, watches, wallets, etc.

- Better Discrimination = Shorter Lines and/or Less Staffing

ENVIRONMENTAL IMMUNITY

- Automatic interference filtering allows use in the most difficult environments

- Automated adjustment for use in strong winds or drafts

- Can be equipped for year-round use outdoors without cover
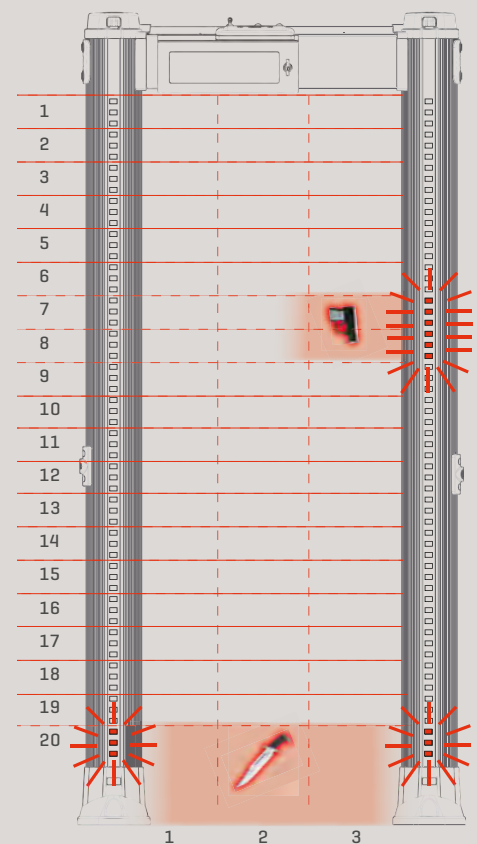
60 LOCALIZATION ZONES
with left, center and right indication.

The PMD2 Plus Elliptic 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.

UNIQUE ALARM SIGNALING

- 4 Multi-Zone Display Bars, each programmable as entry Stop/Go and/or local alarm indication

- 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

PROGRAMMING AND SETUP

- Automated "One Touch Set-up" program can be completed with no prior knowledge of WTMD programming required

- Rapid setting adjustment with universal programming cards

SHAPE – UNOBTRUSIVE COLUMN

- Elliptic shape adheres to a more guest friendly environment
- Provides clearer line of sight across the landscape for security personnel

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

60 ZONE TARGET IDENTIFICATION
provides the security operators optimum resolution of the area where an item is located.

SYSTEM CONFIGURATION

FEATURES	PMD2Plus/EZ
Compliant with the strictest detection and discrimination standards for EMDs	■
4 display bars programmable as zone indicators and/or pacing lights	■
60 localization zones (20 vertical x 3 lateral) with left, center and right indication	■
Chip Card Reader	■
Bluetooth and infrared communication	■
3-Level Password and hardware key access protection	■
Met-Identity technology (separate Ferrous and Non-Ferrous alarm signalling)	■
One Touch Automatic Self Installation (OTS)	■
Automatic Vibration Compensation (AVS, EVA)	■
Automatic Channel Search (CS)	■
Automatic Floor Gain Acquisition (FGA)	■
Automatic Technical Functional Verification (TFV)	■
Automatic Environmental Noise Compensation (ENA)	■
Anti-tamper on/off switch	■
IP65 protection (IP65 control unit, IP68 power supply adapter, anti-vandalism protections, weatherproof gate structure, compliant with IEC 60950-22)	■
Waterproof mains power supply	■
Standard Metal stabilizing plates	■

DIMENSIONS (mm)

44"
89.6"
80"
28.3"
passage width
17.3"
16"
13.5"
34.5"

SHELTER PROTECTION COVER

IP65 CONTROL UNIT: ANTI-VANDALISM PROTECTION

MONOLITHIC CONSTRUCTION AND HIGH STABILITY

ANTI-VANDALISM PROTECTION

STANDARD METAL STABILIZING PLATES

IP68 MAINS POWER SUPPLY
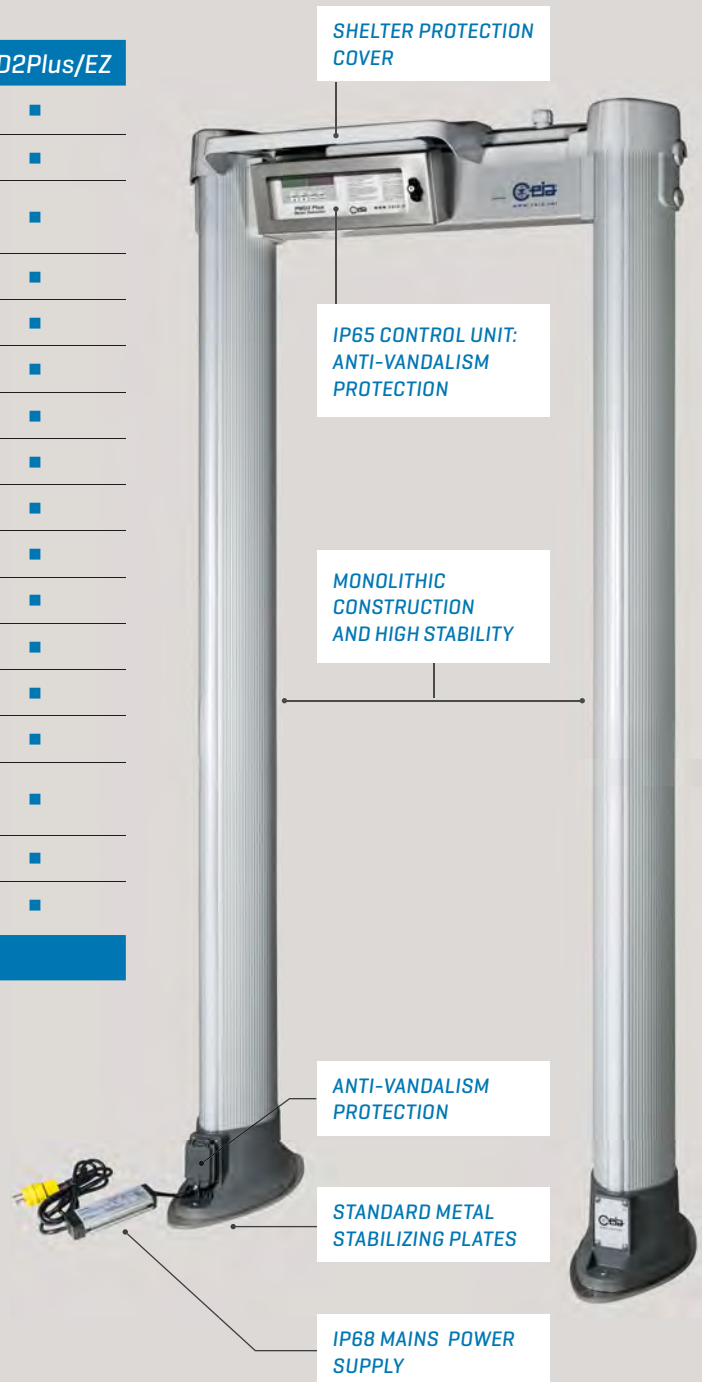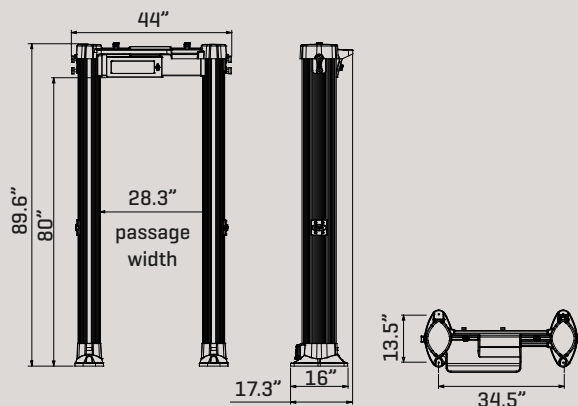
SECURITY CHECKPOINT - EXAMPLE

SCREENER   **1**

BAG CHECKER

- Informs guests of items to place in divesting bowls and instructs them to place bags on table for inspection.

- All items divested to bowls are examined and slid down table.

SCREENER   **2**

WALK-THROUGH METAL DETECTOR (WTMD) OPERATOR

- In charge of watching all patrons passing through the metal detector. Ensures guest collects divested items.

- Watches WTMD for alarm. Passes those guests who alarm to Screener 3 for secondary check, informing that screener of the zone of alarm when possible.

SCREENER   **3**

HAND-HELD METAL DETECTOR (HHMD) OPERATOR

- In case of alarm with WTMD, secondarily screens patrons with HHMD.

9 feet wide
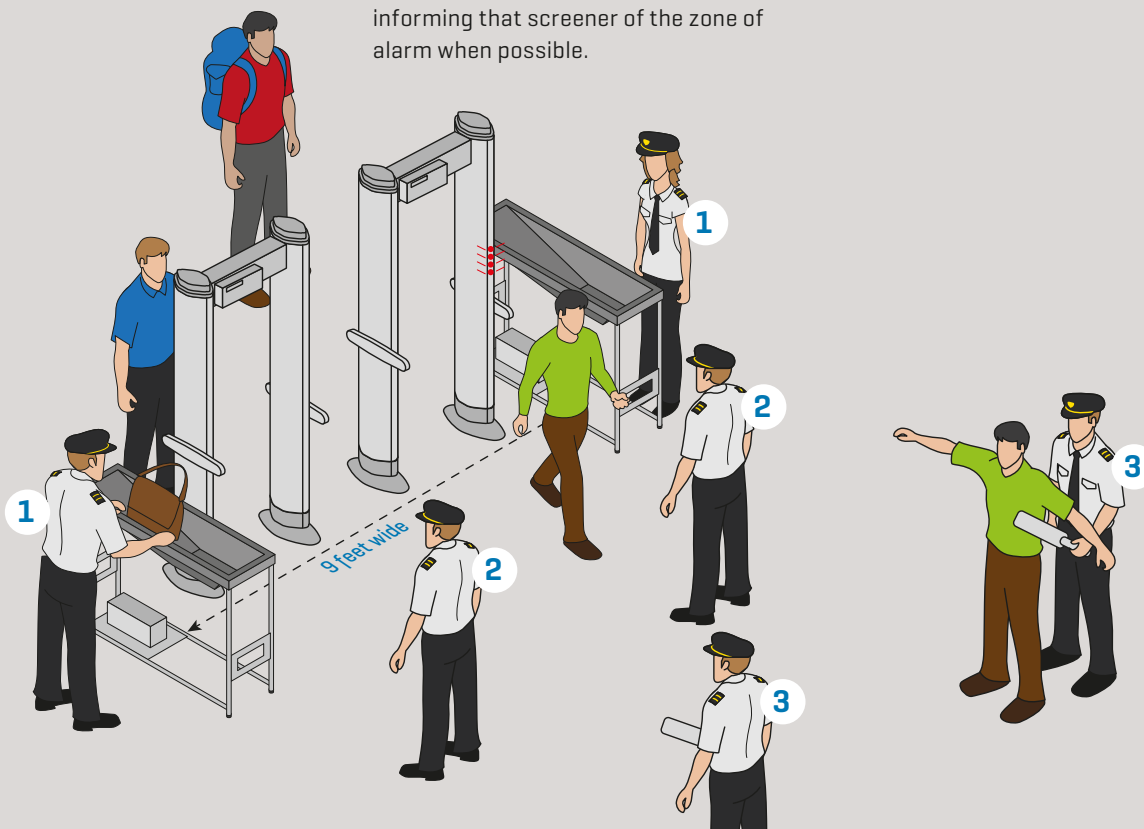
IMPORTANT: *The final user is responsible for selecting the appropriate installation layout and security level/sensitivity for his application. The final user is responsible for determining and implementing the appropriate inspection procedures and for the training of personnel involved in carrying them out.*

SPECIFICATIONS

KEY FEATURES	Wide range of threat detection from guns to ½ cutter blade	Met-Identity technology identifies and signals the metal type
	Excellent discrimination of personal metal effects	Chip Card capability for fast and secure programming
	60 localization zones (20 vertical x 3 lateral) with left, center and right indication	Random alarm capability programmable from 0% to 100%
	Exceptional Immunity to external interferences	Powered by safe low voltage DC
	High precision bidirectional counter with automatic rescreening compensation	Standard Interfaces: Bluetooth, Infrared Other available interfaces: Ethernet

QUALITY	Continuous self diagnostic system	No scheduled maintenance
	Proven reliability	Fully digital design
	No periodic re-calibration and preventive maintenance required	

STRUCTURE	State-of-the-art, robust, washable and compact elliptical columns
	Protected against aging, weather and wear

CENTRAL CONTROL UNIT	Ergonomic and robust design
	High visibility alphanumeric display and programming keyboard
	Made of stainless steel and anti-vandalism construction
	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 19 ft under lighting of 4000lux
	VISUAL ZONE INDICATION: 60 distinct zones (20 vertical x 3 lateral) entry and 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) 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	Very 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 operational 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 of down to 2" without the use of external cables
	Automatic Installation function (OTS)

ENVIRONMENTAL DATA

- POWER SUPPLY: 100...277V~ -10%, 47...63Hz, 40 VA typical consumption
- OPERATING TEMPERATURE: -4°F to 140°F
- STORAGE TEMPERATURE: -35°F to 158°F
- RELATIVE HUMIDITY: 0 to 95% (without condensation)
- ALTITUDE AMSL: 9900 ft max.

CERTIFICATION AND COMPLIANCE

- Compliant with the applicable Standards for Enhanced Metal Detectors
- 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 (CDs, tapes...)

COMPREHENSIVE SUPPORT

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

- 24 x 7 phone technical support
- in-house and on-site repair/services
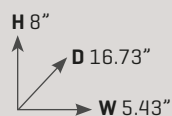- standard and custom training

ACCESSORIES AND SPARE PARTS

‣ **LONG LIFE BATTERIES**

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

• Up to 17 h continuous operation

• 5.5 hours typical charging time.

Part # MBSU-2

H 8"

D 16.73"

W 5.43"

‣ **CROSSBAR BATTERY BACK-UP**

• 6.5 hours typical (up to 8.5 h) of autonomous working time;

• 4.5 hours typical charging time.

Part # 74699B

‣ **TOP POWER ADAPTER (QUICK DISCONNECT)**

Cable to connect power supply to the top of the CEIA WTMD.

Part # 64228 (33 ft)

Part # 68346 (65 ft)

‣ **STORAGE CASE**

• Protects the metal detector during storage

• Set to include all parts and accessories

• Minimizes storage space

Part # 64234

‣ **INTEGRATED WEB-SERVER & LOGGER**

Anti-tamper on/off switch, RS-232, USB, 10/100 baseT Ethernet interface, data logger, real-time clock, integrated web-server, wireless Wi-Fi interface (APSiM3Plus version only) and connection to CEIA NetID System for advanced network management features (APSiM3Plus version only).

Part # APSiM2Plus/E

Part # APSiM3Plus/E

‣ **CHIP CARDS**

• Alarm Volume Chip Card (part # 3538)

• Alarm Tone Chip Card (part # 3539)

• Security level (part # available on request)

‣ **STABILIZING PLATES FOR UNEVEN FLOOR**

Comfortable alternative to direct floor mounting for uneven floor and mobile applications:

• Plastic stabilizing plates (part # 46938)

• Anti-tilting metal plates (part # 70914)

‣ **OUTDOOR DIVESTING TABLE**

In combination with CEIA Walk-Through Metal Detectors, it is a temporary location of personal metal effects for people to be screened.

Part # 67021U

www.ceia-usa.com

‣ **WHEEL KIT – LONG RANGE**

For heavy duty, longer range movement of the elliptic walk-through metal detector.

Part # 70569U

‣ **ELLIPTIC GATE PROTECTIVE COVER**

Protects the gate in permanent outdoor installations during periods of inactivity:

- Long life product, heavy duty material and construction, welded cloth, seamless
- Foldable, small dimensions
- Tear resistant
- Easy to clean
- Anti-vandalism deterrent
- Anti-tampering – lockable

Open the link to see video:

www.ceia.net/security/EllipticGateProtectiveCover.aspx?lan=us1

	ELLIPTIC GATE PROTECTIVE COVER	*ELLIPTIC GATE WITH PHOTOCELL ARMS PROTECTIVE COVER*
28.3" passage width	*Part # 64395*	*Part # 76520*
32.3" passage width	*Part # 76609*	*Part # 76610*

‣ **WHEEL KIT - SHORT RANGE**

For short range movement of the elliptic walk-through metal detector.

Part # 77318U

‣ **DETECTION TEST PIECE**

Test sample kit for NILECJ STD-0601-00 LEVEL 2 AM7 detection compliance verification.

Part # 64435

‣ **IP65 AND ANTI-VANDALISM CONTROL UNIT (SPARE PART)**

Part # 64889

‣ **WATERPROOF MAINS POWER SUPPLY (SPARE PART)**

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

Part # 64610

NETWORKING OF CEIA DETECTION EQUIPMENT

NetID® NETWORK MANAGEMENT SYSTEM FEATURES

- Centralized Monitoring of the functionality of each Metal Detector

- Centralized Setting of the Metal Detectors' working parameters

- Detailed reporting of the transits data and the Security Device configuration data

- Transits flow monitoring

- Data collection from each Metal Detector detailing the information
  on every single transit. Complete transit data is retained by NetID for multiple years.
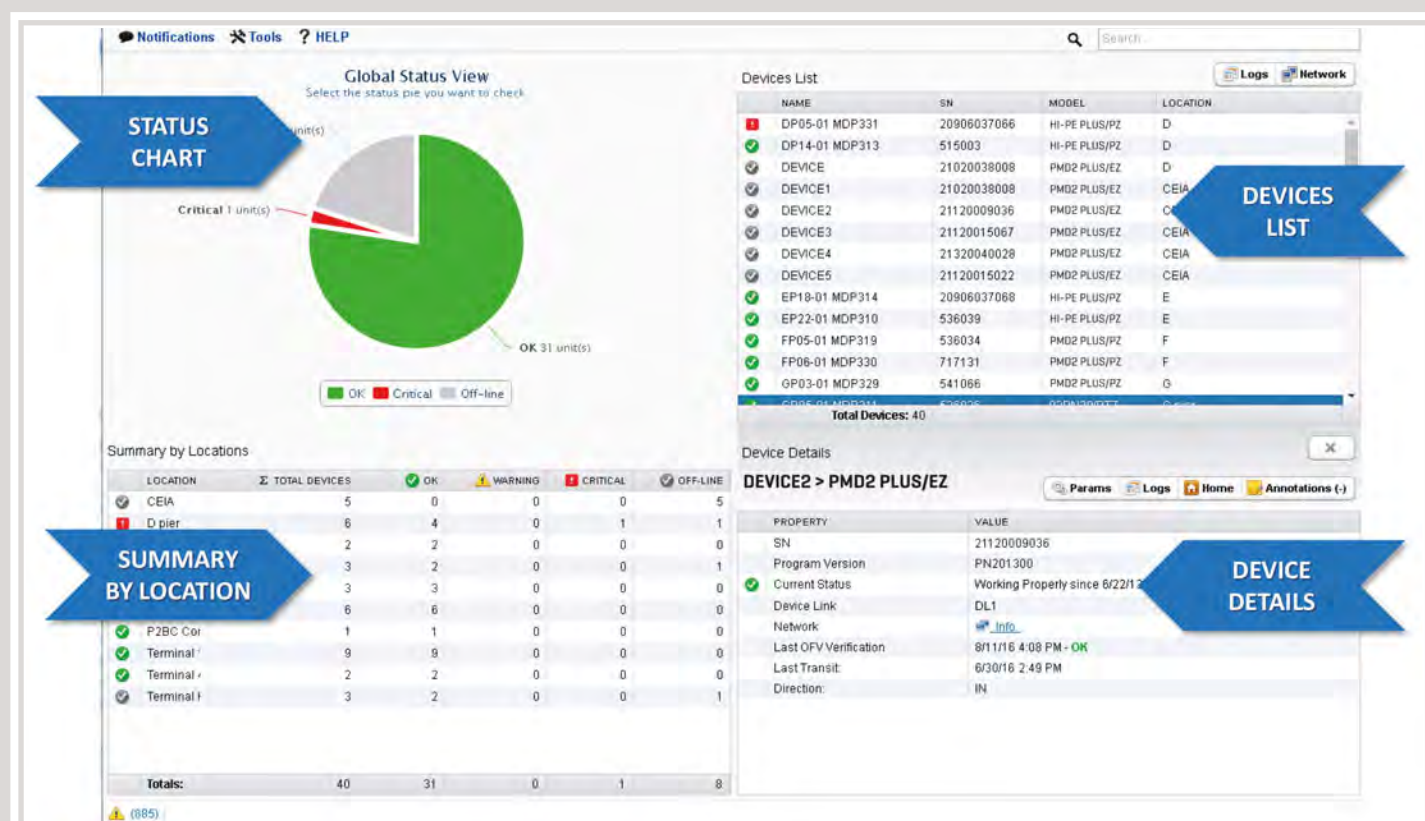
NetID STATE WEB APPLICATION: main view

PD140E / PD240

HAND HELD METAL DETECTION SET

- NIJ Standard - 0602.02 Compliant

- Full Digital Design: Consistent Performance and Calibration-Free Operations

- Uniform Detection of Magnetic and Non-Magnetic Targets

- Elegant, Robust and Ergonomic

- Indoor and Outdoor Operations

- Embedded Long Life Rechargeable Batteries (*PD240* only) are renewable energy and eliminate or end the Operation Cost of Alkaline Batteries

PD140E
▸ *COMPACT*
▸ *PART # PD140E*

PD240
▸ *WIDE SEARCH AREA*
▸ *FLOOR REBARS REJECTION*
▸ *CONFIGURABLE*
▸ *PART # PD240-SET*

RENEWABLE ENERGY

CEIA USA

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

Ceia

www.ceia.net

THREAT DETECTION THROUGH ELECTROMAGNETICS

ISO 9001

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

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

175 cm
86 cm
90 cm
100 cm
16 cm   16 cm
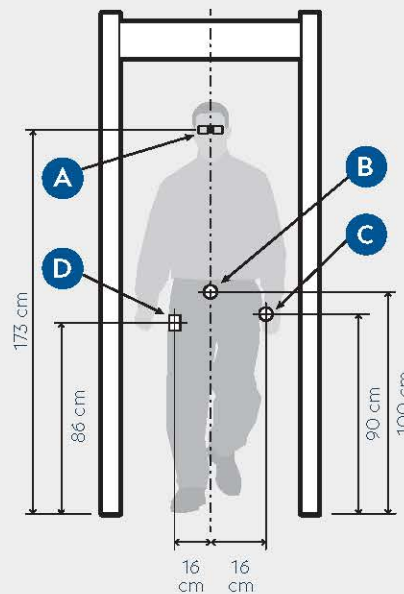
DISCRIMINATION TEST

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)

A Eyeglasses   **C** Watch

B Belt buckle   **D** Set of coins

TEST POSITIONS

5 cm
180 cm
5 cm
5 cm
20 cm   20 cm

NIJ Test grid
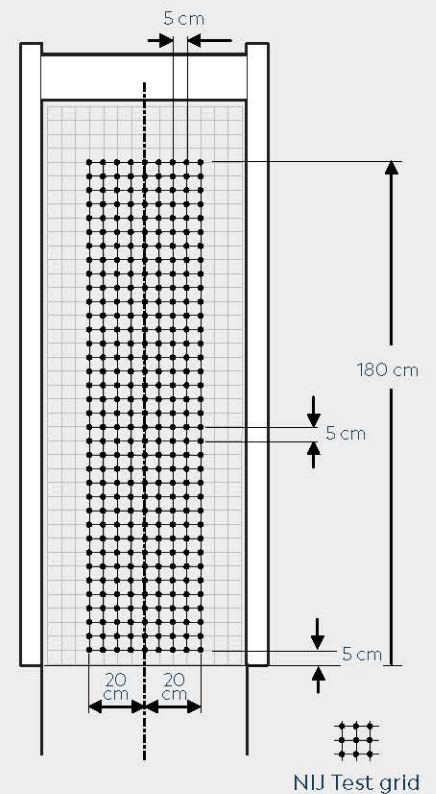
DETECTION TEST OBJECT TRANSITS

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.

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 rate**s and the minimum need for intervention by inspection personnel.

ALARM

NO ALARM

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.

www.ceia.net   3

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	●

DIMENSIONS (mm)

FRONT

720 / 820
Passage width
2050
835 / 935

LATERAL

665
605
2245
660

TOP

630
ø6.50
770

COMMUNICATION CAPABILITIES

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

STANDARD ●   OPTION ○

INTEGRATED WEB-SERVER & LOGGER
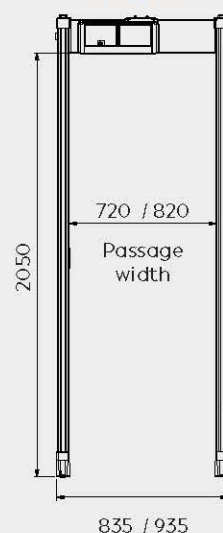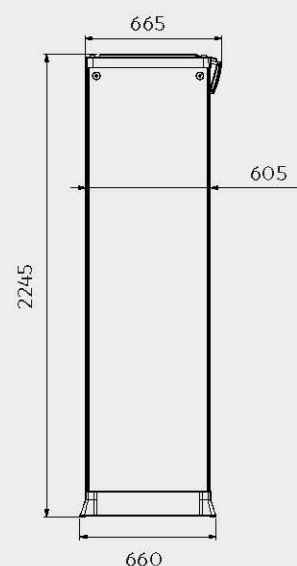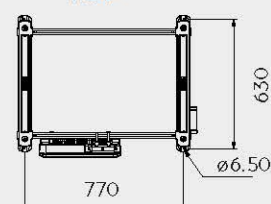
MONITOR

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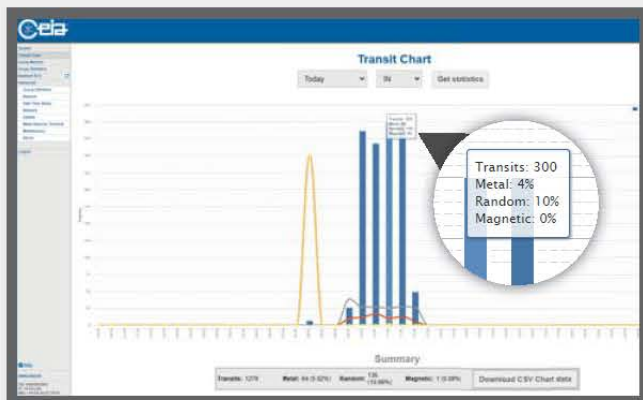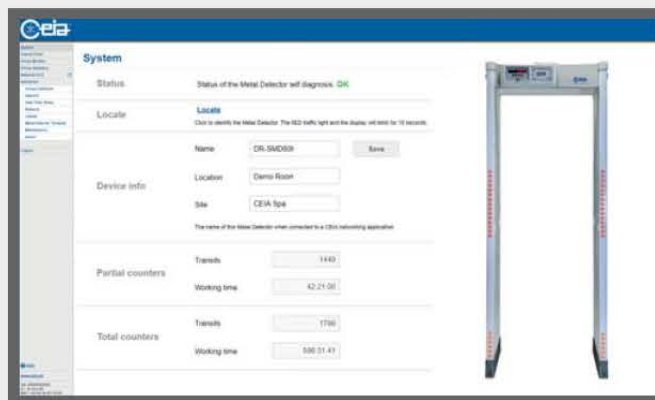
REPORT

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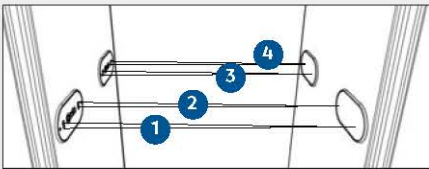
CONTROL

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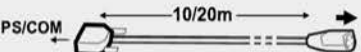- 2 x Ethernet 100base-TX

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
IP65 CONFIGURATION	Outdoor sheltered permanent or non-sheltered short-term installations (single event entrance)		• 720 mm passage width (102710) • 820 mm passage width (102712)
EMBEDDED BATTERY BACK-UP AND CHARGER	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).		APSM2Plus/P
APSiM2 PLUS Integrated Web-server & Logger, Battery Back-up and Charger	Lower Connection Module with anti-tamper on/off switch, RS-232 interface, internal battery back-up and the following functions: ‣ 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		APSiM2Plus/P
APSiM3 PLUS Wireless Network Module	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.		APSiM3Plus/P
820 mm USEFUL PASSAGE WIDTH			55635
VERY HIGH PRECISION TRANSIT COUNTER (4-BEAM)	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		46112
MI2 SENSOR Cell phone ferromagnetic detector	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.		93530

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	① Crossbar battery back-up in stainless steel case. Up to 10 h of autonomous working time. ② Protection cover		55681 Protection cover: • 720 mm passage width: 88858 • 820 mm passage width: 88861
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	① MBSU LWSC (Light Weight Soft Case Version) ② MBSU-2 ③ TSU (Tactical supply unit)		MBSU LWSC
	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.		MBSU-2
	TYPICAL CONTINUOUS OPERATION • MBSU LWSC: 14h • MBSU-2: 14h • TSU: 4 battery pack: 12h / 6 battery pack: 17h / 8 battery pack: 23h		TSU
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.		• 46650 • 180 mm: 89040 • 5 m: 95352
TOP POWER CABLE	This cable allows the AC/DC adapter to be connected to PS/COM port located on top of the TX antenna.		• 10 m: 64228 • 20 m: 68346

ACCESSORY	DESCRIPTION	CODE
INTEGRATED CAMERA SYSTEM	Video camera with support arm and connecting cables. Installation of the APSiM3 Plus module is required.	54253
TDU Thermal Detection Unit	The TDU (Thermal Detection Unit) is an upgrade sensing kit for COVID screening compliance: 1 Thermal Camera Arm 2 Dual Reference Calibration Unit	TDU/P
WHEEL KIT - SHORT RANGE	For short range movement of the walk-through metal detectors.	1 75459 2 70796
WHEEL KIT - LONG RANGE	For heavy duty, longer range movement of the walk-through metal detector.	
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: 1 Standard length: 610 mm 2 Extended length: 1200 mm 3 Outdoor version: 1300 mm	STANDARD: 18074 EXTENDED: 39491 OUTDOOR: 67021
REFERENCE TEST SAMPLES	CEIA provides certified Test Samples reproducing for shape, material and signal on WTMDs the same effect of the reference targets: 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	NIJ-0601.02-SKN NIJ-0601.02-SO/MO-SK EMD-SK-GDML
OFV	Operator Functionality Verification test-kit	OFV

NIJ-0601.02-SO/MO-SK

EMD-SK-GDML

NIJ-0601.02-SKN

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®

CE