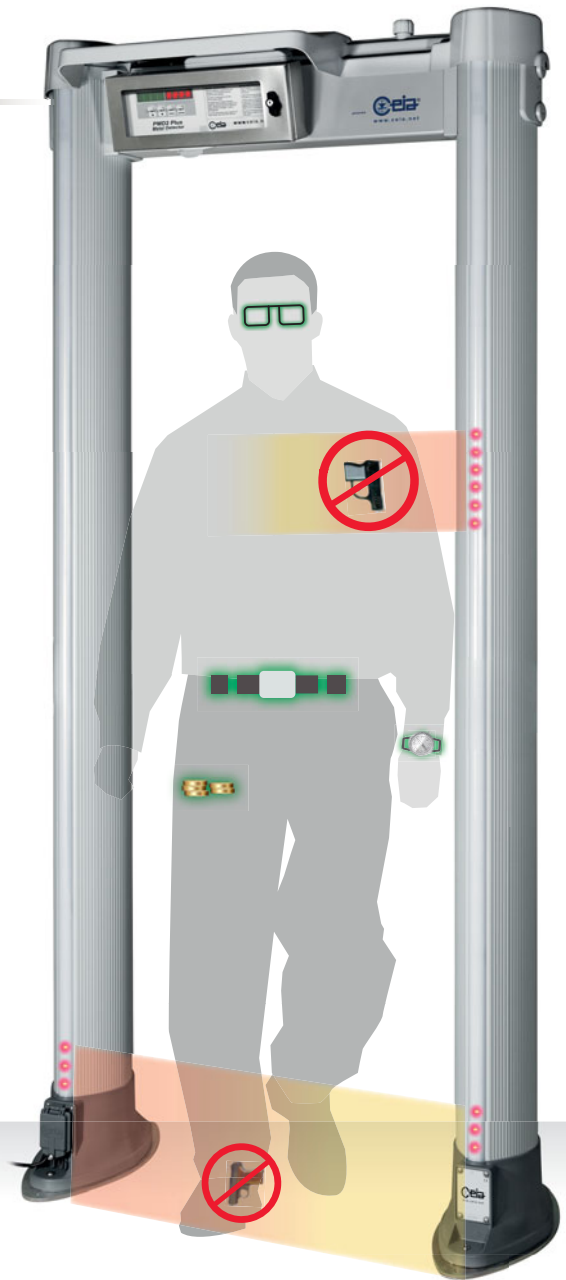# PMD2 Plus Elliptic

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 Enhanced Metal Detector provides fast and effective security without detracting from the visitor experience.

CEia *USA*

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

CERTIFIED SAFETY ACT

Threat Detection through Electromagnetics

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

*The **PMD2 Plus** is currently in use in dozens of Stadiums and Arenas across North America and is Safety Act Certified.*

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.
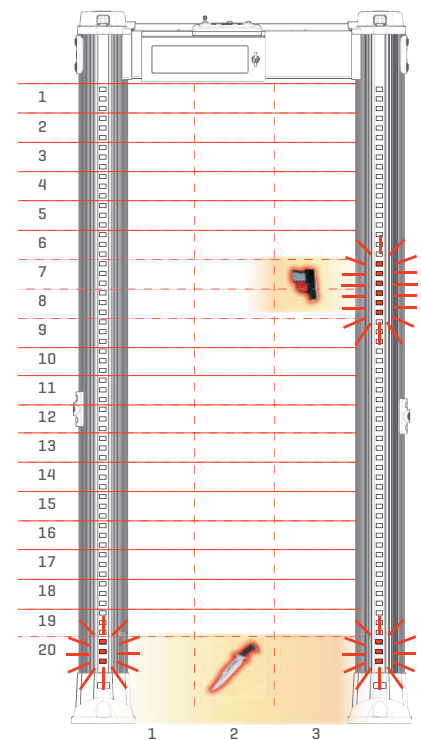
DETECTION

- 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.

ALARM

NO ALARM

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.*
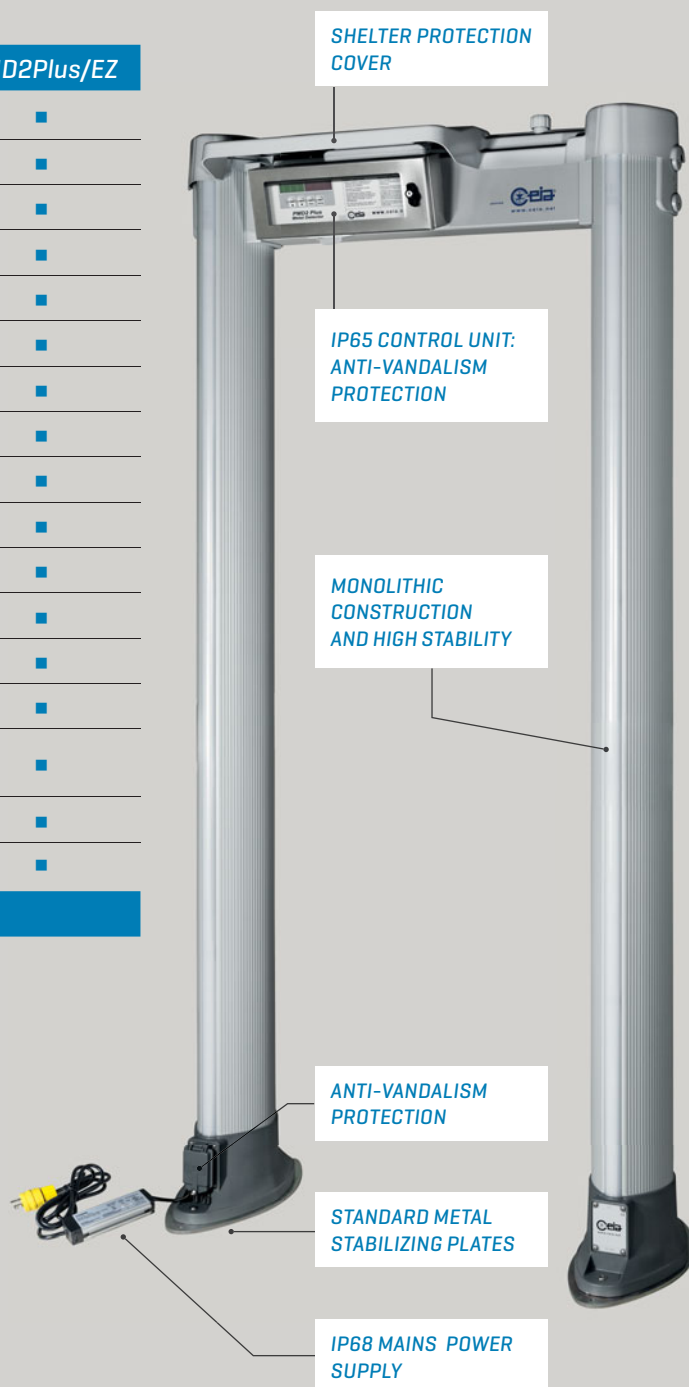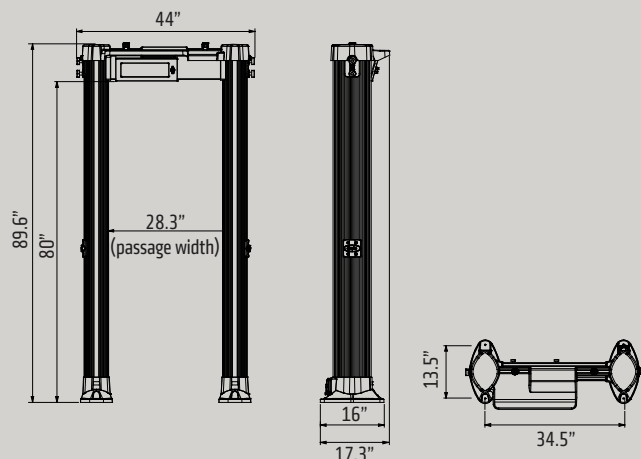

60 Zone target identification *provides the security operators optimum resolution of the area where an item is located.*

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 signaling)	■
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

44"
89.6"
80"
28.3"
(passage width)
16"
17.3"
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.
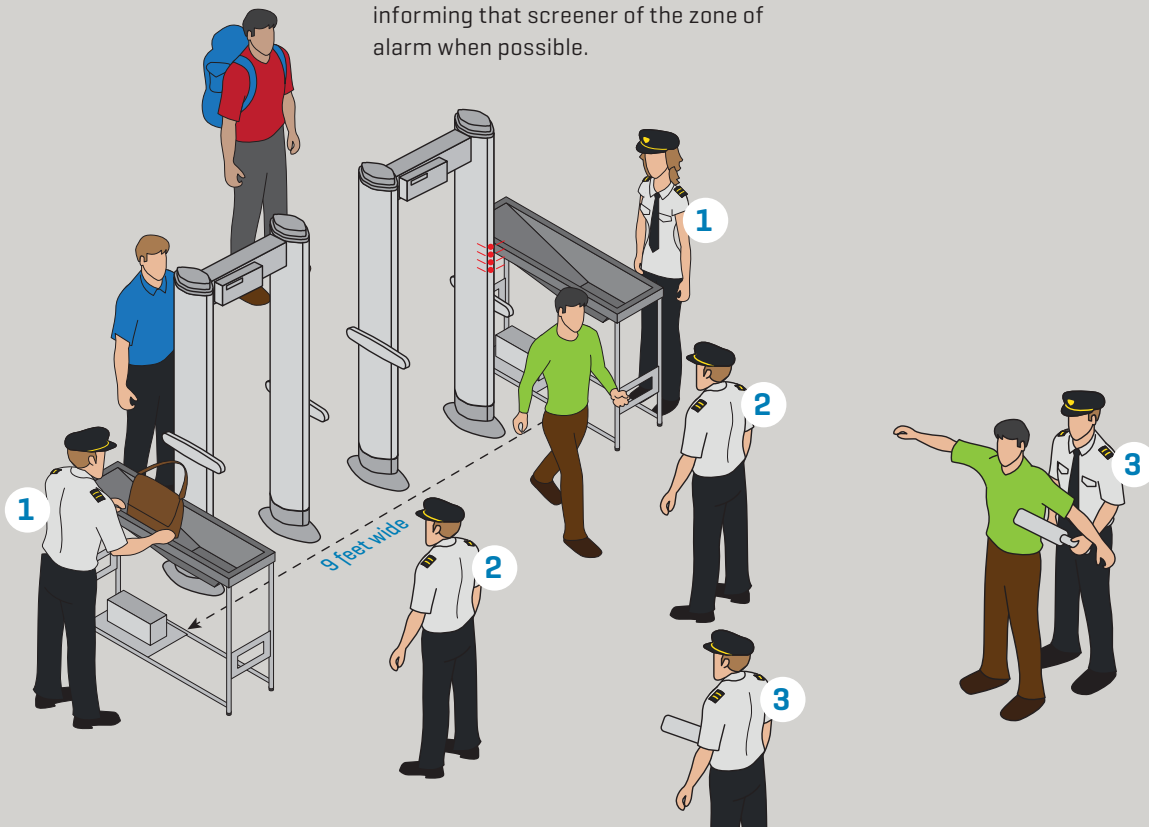
SCREENER ②

WALK-TROUGH 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
  - Archway: supplied by 30V, 2A max DC input
  - IEC 60950-1 CUL listed external AC/DC adapter:
    INPUT 100...277V~ , 50/60Hz, 80W;
    OUTPUT: 30Vdc

- 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
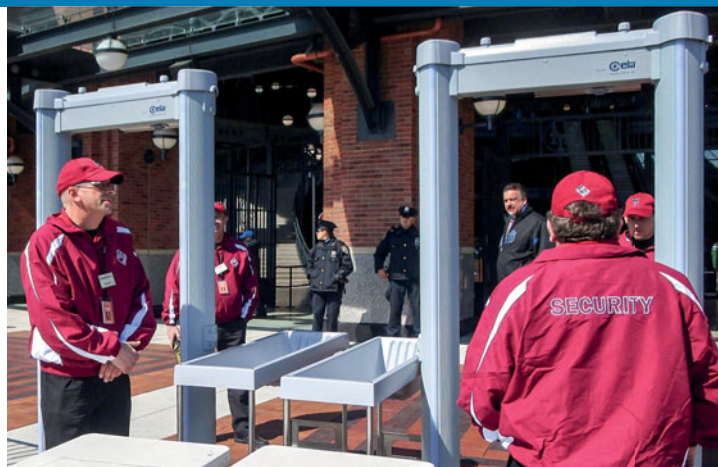- Harmless to magnetic media (CDs, tapes...)

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:

- 13 hours typical (up to 17 h) continuous operation
- 5.5 hours typical charging time.

Part # MBSU-2

8"
16.73"
5.43"

▸ 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

▸ 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

▸ CHIP CARDS

- Alarm Volume Chip Card (part # 3538)
- Alarm Tone Chip Card (part # 3539)
- Security level (part # available on request)

▸ TOP POWER ADAPTER (QUICK DISCONNECT)

Cable to connect power supply to the top of the PMD2 Plus.
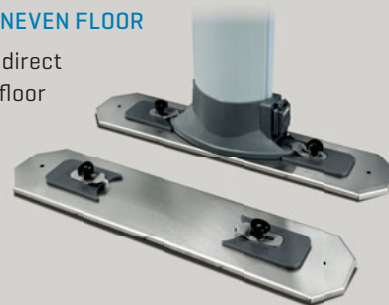
Part # 64228 (33 ft)
Part # 68346 (65 ft)

▸ 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)

▸ STORAGE CASE

- Protects the metal detector during storage
- Set to include all parts and accessories
- Minimizes storage space

Part # 64234

▸ 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 # 67021

CEIA USA 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

‣ WHEEL KIT - LONG RANGE

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

Part # 70569

‣ WHEEL KIT - SHORT RANGE

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

Part # 77318

‣ 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*

‣ DETECTION TEST PIECE

Test sample kit for NILECJ STD-0601-00 LEVEL 2 AN7 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

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

USA