

PD240C

NEW GENERATION LONG RANGE HAND HELD METAL DETECTION SET

FEATURES

- Very High Penetration
- Exceeding the NIJ-0602.02 Standard detection requirements
- Large Search Area
- Accurate pinpointing
- 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



➤ *PD240C Hand Held Detection Set with carry bag*



➤ *PD240C Hand Held Detection Set*



Tel.: +39 0575 4181 Fax: +39 0575 418298 e-mail: infosecurity@ceia-spa.com

www.ceia.net

Threat Detection through Electromagnetics

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

PD240C New Generation

Long Range Hand Held Metal Detection Set

The PD240C is a Hand Held Metal Detector that combines high reliability and ergonomics with advanced detection and operator signaling features. Deep penetration for weapons and minimum metal targets, effective sensitivity to all alloys, exceeding 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 wipe out Operation Cost of Alkaline Batteries
- Embedded Fast and Reliable Battery Charger: no need of batteries removal
- Dedicated Holder acts as Minimum Space 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



Long Detection Range

Elegant, Robust and Ergonomic

The PD240C 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.



Detection area [top and bottom surfaces]

✓ NIJ standard 0602.02 Compliant

The technical features of the detector comply with and exceed the NIJ standard 0602.02 and the new NIJ draft standard 0602.03. The PD240C 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 electro-magnetic and mechanical sources.

✓ Full Digital Design

The PD240C is fully digital. Electronic functions include a inspection field transmitter-receiver based on Digital Signal Processing (DSP) technology, a digital operator interface and external communications over the incorporated USB port.

✓ Advanced Control Panel

The control panel with switches and warning lights is made from high-thickness silicon guaranteeing **high degree of protection** to make the PD240C suitable for indoor and outdoor use.

✓ Advanced Alarm Indication

The alarm signalling modes include: **optical alarm** which is fixed or is proportional to the intensity of the detection signal; **acoustic alarm** with a constant tone or a tone which is proportional to the size of the object detected; **vibrating alarm signal**. It is also possible for the safety manager or the checkpoint supervisor to block one or more operator commands.

✓ Extended Continuous Operation Time

The PD240C metal detector is powered by two AA-size NiMH batteries with a **battery life of over 55 hours**. A **Low Power Mode is automatically activated during pauses**, extending the battery life up to 100 hours. An internal circuit optimises battery recharging which takes less than five hours.

✓ 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.

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 personalise the settings with a dedicated graphic interface.



Fully Programmable Signaling

- Proportional/Fixed, High Loudness Acoustic Alarm
- Proportional/Fixed, 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]



PD240C New Generation

Long Range Hand Held Metal Detection Set

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 55 + 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 | -40°C to 70°C |
| STORAGE TEMPERATURE | -40°C to 80°C |
| RELATIVE HUMIDITY | 0 to 98% (without condensation) |
| DIMENSIONS | PD240C: 405 mm x 120 mm x 40 mm HHDS Docking station: 175 mm x 115 mm x 85 mm Carry Bag: 430 mm x 340 mm x 105 mm Detection Set Package PD Set: 450 mm x 325 mm x 115 mm |
| WEIGHT | PD240C (with battery): 440 g HHDS Docking station for PD240C (with power adapter): 755 g Carry Bag: 1,3 kg Detection Set Package PD Set: 2,2 kg |
| COLOR | PD240C: 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 |

Ordering Information

PD Set: part # PD240C-SET

Accessories

NIJ 0602.02 Test Pieces Kit:
part # NIJ-HHMD-0602.02 (includes 11 test objects for LO, MO, SO, VSO security levels)

Carry Bag: part # 64082

HHMD Configuration tool: part # 63537
(includes special USB adapter with cable, GUI application software)

| # | Part List - description |
|----|---|
| 1 | PD240C Hand Held Metal Detector |
| 2 | HHDS Docking station |
| 3 | Coupling pins for HHDS side-by-side placement |
| 4 | Calibration NIJ compliant Test Piece |
| 5 | Universal AC adapter |
| 6 | US, EU, UK, JP plugs adapter |
| 7 | Wrist strap |
| 8 | Instruction manual |
| 9 | Quick Reference Guide |
| 10 | Carry Bag |



PD240C Set



PD240C Set inside the Carry Bag



HHMD Configuration tool

Applications

- Airports
- Law Enforcement
- Nuclear Facilities
- Public Events
- Correctional Facilities
- Government Buildings
- Loss Prevention
- Schools Security



Zona Industriale 54/G, 52041 Vicinaggio - Arezzo [ITALY]
Tel.: +39 0575 4181 Fax: +39 0575 418298 E-mail: infosecurity@ceia-spa.com

DP100K0008V2000UK-64210