

# PD240

## New Generation Wide Search Area Detection Set

### Features

- Full Digital Design: Consistent Performance and Calibration-Free Operations
- Elegant, Robust and Ergonomic
- NIJ Standard - 0602.02 Compliant
- Wide Search Area for Faster and Accurate Screening Operations
- Uniform Detection of Magnetic and Non-Magnetic Targets
- High Immunity to Floor Rebars allows Lower-Body Screening without Sensitivity Reduction
- Indoor and Outdoor Operations



☑ **PD240 Detection Set**  
with carry bag



Renewable  
Energy

☑ **PD240**  
Detection Set



GSA Contract Holder

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**Threat Detection through Electromagnetics**

## PD240 New Generation

### Wide Search Area Detection Set

CEIA is proud to present the new PD240 Hand-Held Metal Detector, a development of the well-established PD140 model. 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
- 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



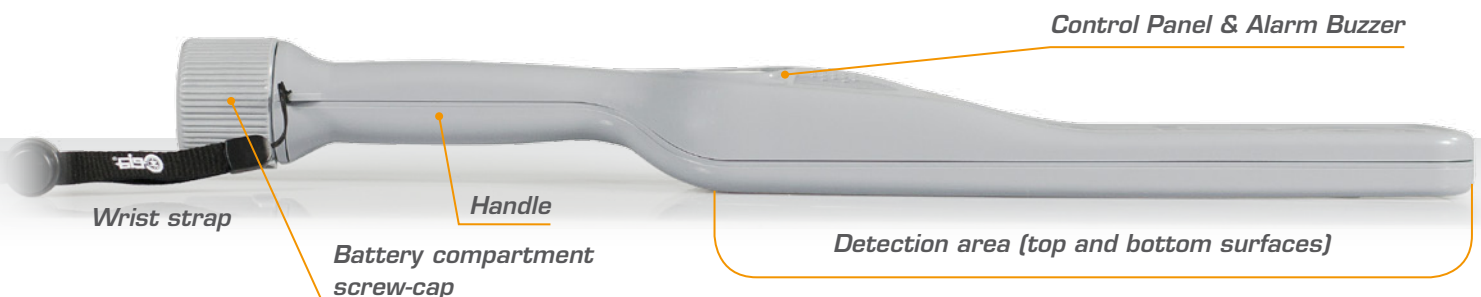
### High Immunity to Floor Rebars

*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.*

### ✓ 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. **On the new model the sensitive area is 70% wider than before.** This means fewer scans per person and therefore shorter inspection times per person. **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.**



## ✓ Full Digital Design

The PD240 is fully digital. Electronic functions include a magnetic field transmitter-receiver based on Digital Signal Processing (DSP) technology, a digital operator interface and an external communication over the incorporated USB port. **This design, combined with a special printed antenna, ensures consistent performance, very high reliability and calibration-free operations.**

## ✓ 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.

## ✓ 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 PD240 suitable for indoor and outdoor use.

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

## Advanced Programming Capabilities

*The digital design of the new metal detector also enables 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)*





# PD240 New Generation

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### Specifications

<b>POWER SUPPLY</b>	2x AA size NiMH, rechargeable batteries
<b>FULLY CUSTOMIZABLE CONTROL PANEL</b>	Optical, acoustic and vibratory alarm modes 3-level sensitivity selection buttons
<b>DETECTION AND OPERATIONAL FUNCTIONS</b>	Customizable via HHMD Configuration tool
<b>BATTERY</b>	Battery life 100 + hours (AA NiMH batteries 2500 mAh) Low battery indicator Built-in fast battery charger in combination with the CEIA HHBC
<b>OPERATING TEMPERATURE</b>	-35°F to 158°F
<b>STORAGE TEMPERATURE</b>	-35°F to 176°F
<b>RELATIVE HUMIDITY</b>	0 to 98% (without condensation)
<b>DIMENSIONS</b>	<b>PD240:</b> 17" x 3.2" x 1.6" <b>HHBC:</b> 6.7" x 4.7" x 3.5" <b>Carry Bag:</b> 16" x 11.5" x 3.8" <b>Detection Set Package</b> PD Set: 17.7" x 12.6" x 4"
<b>WEIGHT</b>	<b>PD240</b> (with battery): 1.03 lbs <b>HHBC Desktop Battery Charger</b> for PD240 (whit power adapter): 1.6 lbs <b>Carry Bag:</b> 2.7 lbs <b>Detection Set Package</b> PD Set: 4 lbs
<b>COLOR</b>	<b>PD240:</b> light grey RAL 7040 - <b>Carry Bag:</b> Green RAL 7013
<b>MANUFACTURED IN GREY SHOCK-RESISTANT TECHNICAL POLYMERS</b>	
<b>COMPLIANCE</b>	Conforms to the NIJ 0602.02 Standard and the new NIJ Standard 0602.03 for metal detection Conforms to the international standards currently applicable for safety, EMC and to the applicable CE regulations

### Ordering Information

**PD Set:** part # PD240-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 # 61098

**HHMD Configuration tool:**  
part # 60356 (includes special USB adapter with cable, GUI application software)

### # Part List - description

- 1 PD240 Hand Held Metal Detector
- 2 Calibration Test Piece
- 3 Wrist strap
- 4 Desktop Battery Charger
- 5 Universal AC adapter
- 6 US, EU, UK, JP plugs adapter
- 7 Instruction manual
- 8 Carry Bag



**PD Set**



**PD Set inside the Carry Bag**



**HHMD Configuration tool**

### Applications

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



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