



NIJ-0602.02  
COMPLIANT

# PD240CB

## LONG-RANGE HAND-HELD METAL DETECTION SET

- Long detection range for standoff inspection
- Exceeds the NIJ Standard - 0602.02 detection requirements
- Search operations allowed even in close proximity of metal reinforced floors
- Large Search Area
- Uniform Detection of Magnetic and Non-Magnetic Targets
- Exceptional Immunity to environmental interference
- Full Digital Design: Consistent Performance and Calibration-Free Operations
- Elegant, Robust and Ergonomic
- Detection of radioactive substances and materials (option)
- Indoor and Outdoor Operations

**DUAL-TONE AUDIO SIGNALLING &  
DUAL-COLOUR DISPLAY**  
FOR HIGH PRECISION PINPOINTING



RENEWABLE  
ENERGY



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THREAT DETECTION THROUGH ELECTROMAGNETICS



The **PD240CB** is a Hand Held Metal Detector that combines **high reliability and ergonomics with advanced detection and operator signalling 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
- 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 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



**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. 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.

**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 SIGNALLING**

- 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



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

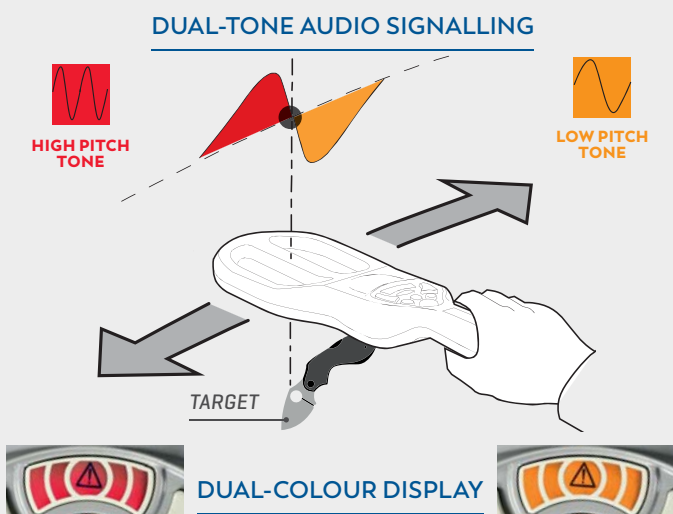
### EXTENDED CONTINUOUS OPERATION TIME

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 optimises battery recharging which takes less than five hours.

### SOPHISTICATED COMMUNICATION CAPABILITIES

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

#### HIGH PRECISION PINPOINTING



Both features provide a feedback that allows high-precision localization of metal objects.

#### HIGH IMMUNITY TO ENVIRONMENTAL INTERFERENCE



The PD240CB incorporates innovative technical solutions which make it possible to operate much closer to floors with steel reinforcement bars: all this without any reduction in sensitivity.

## SPECIFICATIONS

<b>POWER SUPPLY</b>	2x AA size NiMH, rechargeable batteries
<b>FULLY CUSTOMIZABLE CONTROL PANEL</b>	Optical, acoustic and vibration alarm modes 3-level sensitivity selection buttons
<b>DETECTION AND OPERATIONAL FUNCTIONS</b>	Customizable via HHMD Configuration tool
<b>BATTERY</b>	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
<b>OPERATING TEMPERATURE</b>	-40°C to 70°C
<b>STORAGE TEMPERATURE</b>	-40°C to 80°C
<b>RELATIVE HUMIDITY</b>	0 to 98% [without condensation]
<b>DIMENSIONS</b>	<b>PD240CB:</b> 405 mm x 120 mm x 40 mm <b>HHDS Docking station:</b> 175 mm x 115 mm x 85 mm <b>CARRY BAG:</b> 430 mm x 340 mm x 105 mm
<b>WEIGHT</b>	<b>PD240CB</b> (with battery): 480 g <b>HHDS Docking station</b> (with power adapter): 755 g <b>CARRY BAG:</b> 1.3 kg

### MANUFACTURED IN GREY SHOCK-RESISTANT TECHNICAL POLYMERS

<b>COMPLIANCE</b>	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
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### 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 [WxDxH]: 450 mm x 325 mm x 115 mm
- Weight: 2.3 kg
- Packages for 20 ft container: 960
- Packages for 40 ft container: 2016

- 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



**CEIA** - Zona Industriale 54, 52041 Vicinaggio - Arezzo (ITALY)  
T +39 0575 4181 • F +39 0575 418298 • E infosecurity@ceia-spa.com

[www.ceia.net](http://www.ceia.net)

