

# PD240

## NEW GENERATION WIDE SEARCH AREA HAND HELD METAL DETECTION SET

NSN: 6665150114797

### FEATURES

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

### Applications

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

NIJ-0602.02  
Compliant

Certified  
according to EU  
Regulation on Civil  
Aviation Security



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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 condition of sale



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



#### ✓ 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.

#### ✓ 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.*



## ✓ 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.

## ✓ FULL DIGITAL DESIGN

The PD240 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. **This design combined with a special printed antenna ensures top reliability and very high repeatability.**

## ✓ 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.

## ✓ 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; **vibration alarm signal**. It is also possible for the safety manager or the checkpoint supervisor to lock 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 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.

## Fully Programmable Signaling

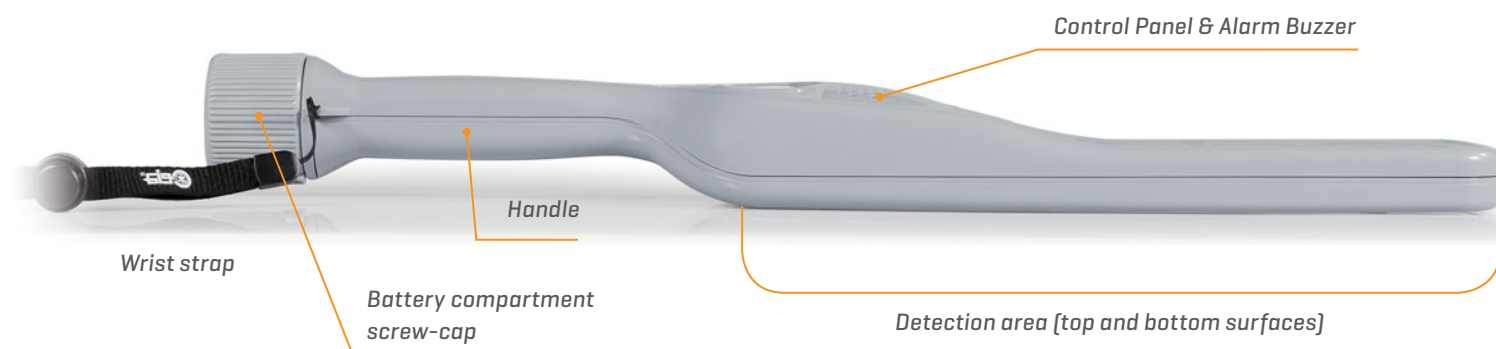
- Proportional/Fixed, High Loudness Acoustic Alarm
- Proportional/Fixed, High Brightness Optical Alarm
- Vibration Alarm for Discrete Screening



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

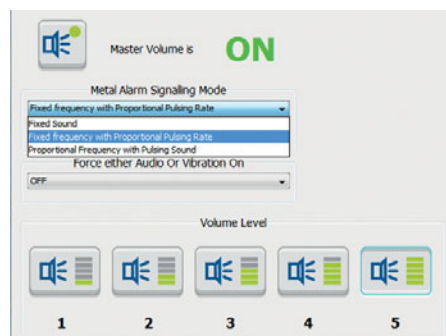
### WIDE SEARCH AREA HAND HELD METAL DETECTION SET

#### ✓ 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.



#### ➤ Main Menu



#### ➤ Audio Signaling Setting

## Accessories

### Carry Bag (part # 64081)



### Belt Holster (part # 64614)



### NIJ 0602.02 Test Pieces Kit (part # NIJ-HHMD-0602.02)

Includes 11 test objects for LO, MO, SO, VSD security levels.

Test pieces are manufactured according to NIJ 0602.02 specifications and electromagnetically certified.



### HHMD Configuration tool (part # 63537)

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.



### Cigarette lighter cable for battery charger

(part # 64436)



## HHDS-5: Five Hand Held Metal Detector docking station base

### 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



Part # HHDS-5

### Equipment information

Power supply	100-240 VAC, 50-60Hz, 30W
Dimensions (mm)	635 x 72 (W x H)

### Shipping information

Dimensions (mm)	710 x 350 x 110 (WxDxH)
Weight	3,3 kg

### # Part List - description

1	Five Hand Held Metal Detector docking station base
2	Universal AC adapter
3	US, EU, UK, JP plugs adapter
4	Quick Reference Guide

## PD240

### WIDE SEARCH AREA 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 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°C to 70°C
STORAGE TEMPERATURE	-40°C to 80°C
RELATIVE HUMIDITY	0 to 98% (without condensation)
DIMENSIONS	PD240: 430 mm x 80 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
WEIGHT	PD240 (with battery): 470 g HHDS Docking station for PD240 (with power adapter): 755 g Carry Bag: 1,3 kg
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

## Ordering Information

PD240 part # PD240-SET

## Shipping Information

Dimensions (mm) 450 x 325 x 115 (WxDxH)

Weight 2,2 kg

#	Part List - description
1	PD240 Hand Held Metal Detector
2	HHDS Docking station
3	Coupling pins for side-by-side charger 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



Part # PD240-Set



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