



# PD140N

## COMPACT HAND-HELD METAL DETECTION SET

- NIJ Standard - 0602.02 Compliant
- Compact, Elegant, Robust and Ergonomic
- Uniform Detection of Magnetic and non-Magnetic Targets
- Full Digital Design: Consistent Performance and Calibration-Free Operations
- Detection of radioactive substances and materials [option]
- Extended Continuous Operation Time
- Advanced Configuration Capability
- Indoor and Outdoor Operations



CARRY BAG



RENEWABLE ENERGY



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*Threat Detection through Electromagnetics*

**The PD140N is a Hand Held Metal Detector** that combines high reliability and ergonomics with advanced detection and operator signalling 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 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



### COMPACT, ELEGANT, ROBUST AND ERGONOMIC

The PD140N 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 PD140N suitable for indoor and outdoor use.

### FULLY PROGRAMMABLE SIGNALING

- 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



DETECTION AREA  
[TOP AND BOTTOM SURFACES]

CONTROL PANEL  
AND ALARM BUZZER

HANDLE

BATTERY COMPARTMENT  
SCREW-CAP

WRIST STRAP

### 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 PD140N 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.

### EXTENDED CONTINUOUS OPERATION TIME

The PD140N is powered by two AA-size NiMH batteries with a **battery life of over 100 hours**. A Low Power Mode is automatically activated during periods of inactivity, extending the battery life up to 200 hours.

### FULL DIGITAL DESIGN

The PD140N 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**.

### 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 CONFIGURATION CAPABILITY



MAIN MENU

The digital design of the new metal detector also enables the maximum flexibility in selecting the functions available to the user and 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 [HHMD configuration tool required].

## ACCESSORIES

### ▶ CARRY BAG

[ordering code: 64081]



The carry bag does not include parts inside

### ▶ BELT HOLSTER

[ordering code: 64614]



### ▶ NIJ 0602.02 TEST PIECES KIT

Includes 11 test objects for LO, MO, SO, VSO security levels. Test pieces are manufactured according to NIJ 0602.02 specifications and electromagnetically certified.

[ordering code:  
NIJ-HHMD-0602.02]



### ▶ HHMD CONFIGURATION TOOL

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.

[ordering code: 63537]



### ▶ CIGARETTE LIGHTER CABLE FOR BATTERY CHARGER

[ordering code: 64436]



## HHDS-5: FIVE HAND HELD METAL DETECTOR DOCKING STATION



### 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



### ORDERING CODE

HHDS-5

### EQUIPMENT INFORMATION

Power supply: 100-240 Vac, 50-60Hz, 30W  
Dimensions (mm): 635 x 250 x 57 (WxDxH)

### SHIPPING INFORMATION

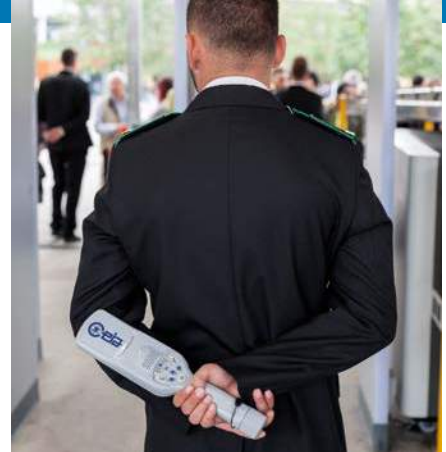
Dimensions (mm): 710 x 350 x 110 (WxDxH)  
Weight: 3.3 kg

### PART LIST

- 1 Docking station base
- 2 Universal AC adapter
- 3 US, EU, UK, JP plugs adapter
- 4 Quick Reference Guide

## 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 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
<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>PD140N:</b> 360 mm x 80 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>PD140N</b> (with battery): 390 g <b>HHDS Docking station</b> (with power adapter): 755 g <b>CARRY BAG:</b> 1.3 kg
<b>COLOR</b>	<b>PD140N:</b> light grey RAL 7040 - Carry Bag: Green RAL 7013
<b>MANUFACTURED IN GREY SHOCK-RESISTANT TECHNICAL POLYMERS</b>	
<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
<b>ACCESSORIES</b>	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, VSO security levels) HHMD Configuration tool: part # 63537 (includes special USB adapter with cable, GUI application software) Cigarette lighter cable for battery charger: part # 64436



### ORDERING CODE

PD140N-SET

### SHIPPING INFORMATION

Dimensions (WxDxH):  
425 mm x 220 mm x 110 mm  
Weight: 2 kg

### PD140N-SET: PART LIST

- 1 PD140N Hand Held Metal Detector
- 2 HHDS Docking station
- 3 Coupling pins for side-by-side docking station 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



PD140N [# PD140N-SET]



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