

PD140N

NEW GENERATION COMPACT HAND HELD METAL DETECTION SET

FEATURES

- NIJ-0602.02 Standard Compliant
- Compact, Elegant, Robust and Ergonomic
- Uniform Detection of Magnetic and Non-Magnetic Targets
- Full Digital Design: Consistent Performance and Calibration-Free Operations
- Extended Continuous Operation Time
- Advanced Programming Capabilities
- Indoor and Outdoor Operations



☑ **PD140N Hand Held
Detection Set with carry bag**



☑ **PD140N Hand Held
Detection Set**



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Threat Detection through Electromagnetics

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PD140N

New Generation Compact Hand Held Detection Set

The PD140N 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



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.

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. **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.

Control Panel & Alarm Buzzer



✓ 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.

✓ Full Digital Design

The PD140N 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.**

✓ 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 PD140N 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 PD140N 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.

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]



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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	PD140N: 360 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 Detection Set Package PD140N Set: 450 mm x 325 mm x 115 mm
WEIGHT	PD140N (with battery): 390 g HHDS Docking station for PD140N (whit power adapter): 755 g Carry Bag: 1,3 kg Detection Set Package PD140N Set: 2,2 kg
COLOR	PD140N: 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 # PD140N-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 # 64081

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

Part List - description

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



PD140N Set



PD140N Set inside the Carry Bag



HHMD Configuration tool

Applications

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



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