

# PD-140

## Hand Held Metal Detector



V140 CARRYING CASE

High Sensitivity

Detects both Magnetic and  
Non-Magnetic Metals

Very High Reliability

Easy to Use

Long Battery Life

Self-Calibrating

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# PD-140 HAND HELD METAL DETECTOR



The **PD140 Hand Held Metal Detector** is a device designed to detect metal masses carried by people or objects. It can be used for detecting weapons, detonators or other small pieces of metal carried by people or in objects, baggage, correspondence and fabric.

The special shape of the sensitive surface makes operation of the device easy, unlike portable metal detectors with ring transducers. The PD140 Metal Detector is available in two versions: the **PD140 and PD140R**, with standard sensitivity, and the **PD140SR**, a super-sensitive device for special applications, i.e. prisons, chip manufacturers, archaeological research, restoration work and hospitals.

## TECHNICAL FEATURES

- **Power Supply:**
  - PD140: 9V dry battery or 9V NiMH with contact charger.
  - PD140R - PD140SR: 9V NiMH with BC140 inductive charger
- Three-position switch with selection of visible alarm or audible and visible alarm
- **Built-in buzzer:**
  - PD140 - PD140R: High intensity pulsed acoustic alarm
  - PD140SR: Continuous acoustic alarm, with fixed tone or variable tone (frequency dependent on the dimensions and the distance of the metal mass)
- Audio: fixed 75 dB(A) at 1m
- Optional earpiece output for audible alarm
- Indicator lamps for power on and alarm
- Visible indicator of low battery charge
- **Battery life** in continuous operation:
  - with NiMH batteries: 50 hours max;
  - with alkaline batteries: 150 hours max.
- Operating temperature: from 5 °F to 140 °F (-15°C ÷ 60°C)
- Storage temperature: from -13 °F to 158 °F (-25°C ÷ 70°C)
- Relative humidity: 0 ÷ 95% without condensation
- Manufactured in black, shock-resistant ABS
- Overall dimensions: 3.15" x 13.39" x 2.16" (80 x 340 x 55 mm)
- **Weight** (batteries included):
  - PD140: 0.8 lb (0.365 kg);
  - PD140R, PD140SR: 0.88 lb (0.400 kg)
- Conforms to the International Standards currently applicable for Electrical Safety, E.M.C. and to the applicable EC regulations.



1. BATTERY COMPARTMENT
2. BUZZER
3. ON/OFF SWITCH
4. SENSITIVITY ADJUSTMENT
5. ALARM LEDS
6. POWER ON LED

## BC140

### INDUCTIVE BATTERY CHARGER

The **BC140** unit provides recharging, without electrical contact, of the NiMH batteries in the **PD140R** and **PD140SR** Metal Detectors. The **BC140** battery charger is designed to be able to be connected in cascade with other similar devices, without any limitation on the number. Besides recharging batteries, the special design of the device acts as a stand for the **PD-140 Metal Detector**.

## TECHNICAL FEATURES

- Power supply: 110-240Vac, 50/60Hz, with automatic switching
- Recharging time: 16 ÷ 18 hours min. (complete cycle)
- ON/OFF switch with indicator lamp
- Overall dimensions: 3.2 x 6.1 x 3.8 (ht) inches (82 x 155 x 97 mm)
- Weight: 1.1 lb (0.5 kg)
- Length of mains cable: 9.9 ft (3 m).
- Length of cable for connecting units in cascade (Ref. CU140): 6.7" (0.17 m)
- Manufactured in black, shock-resistant ABS.

## V140

### CARRYING CASE

The **V140** carrying-case, in shock-resistant material, is predisposed to contain the following items: a **PD-140R** or a **PD-140SR** Metal Detector, a **BC140** battery-charger, a spare NiMH battery, a power supply cable and the instructions for use.

## TECHNICAL FEATURES

- Overall dimensions: 17.5 x 11.8 x 7(ht) inches (445 x 300 x 180 mm)
- Total gross weight: 5.7 lb (2.5 kg)
- Shock-resistant ABS construction and the special storage compartments make the V140 carrying-case the ideal, safest and most compact means of transporting the PD140.

## ALTERNATIVE CONTACT CHARGER

As an alternative to the BC140, a contact charger for a single 9V NiMH battery is available.

- Power Supply: 230 Vac - 50/60 Hz (120 Vac - 60 Hz is available on request)
- Recharging time: 14 ÷ 18 hours min.



BC140 INDUCTIVE BATTERY CHARGER

[www.ceia-usa.com](http://www.ceia-usa.com)

# SecurMAR

833 Shannon Drive Crown Point, IN 46307  
219.661.8964 phone 219.661.8965 fax  
email: [sales@securmar.com](mailto:sales@securmar.com) website: [www.securmar.com](http://www.securmar.com)



CEIA USA Ltd - 9155 Dutton Drive, Twinsburg, OH 44087  
330-405 3190 phone 330-405 3196 fax