

CEIA PD240CH — DUAL SENSING HAND-HELD FERROMAGNETIC DETECTION SYSTEM FOR MRI Hand-held dual sensing patient screener for MRI safety prior to examination



Product description:

The **CEIA PD240CH** is a hand-held ferromagnetic detection system with **dual sensing capability**, designed for patient screening prior to an MRI exam. The only hand-held device capable of **separately detecting both ferromagnetic and non-ferromagnetic metals**, it provides protection from adverse magnetic field interaction and potential RF-induced metallic heating.

The PD240CH features **three analysis modes** selectable according to clinical needs: all metals detection on the full body, ferrous metals detection on the body, or ferrous metals detection on the head. The control interface is fully customizable via the HHMD configuration tool.

High precision pinpointing is achieved through dual-tone audio signalling and a dual-colour display, enabling accurate localization of detected metal objects. Alerts are available in audible, visual and silent-vibration modes.

The device is equipped with **embedded long life AA Ni-MH 2500mAh rechargeable batteries**, eliminating the operational cost of alkaline batteries. Charging is performed via the included HHDS-CH docking station.

Analysis modes

- **All metals:** high sensitivity to all types of metals (implanted medical devices, prostheses, metal splinters)
- **Body:** high sensitivity to small ferromagnetic metals (ferromagnetic fragments, surgical instruments) — insensitive to large non-ferromagnetic prostheses
- **Head:** high sensitivity to very small ferromagnetic metals — insensitive to non-ferromagnetic dental implants and small prostheses

Technical specifications

- **Power supply:** 2 x AA Ni-MH 2500mAh rechargeable batteries
- **HHDS-CH docking station:** AC/DC adapter 100-240V~, 50-60Hz, 175mA max
- **Battery life — All metals:** > 50 hours
- **Battery life — Body:** > 20 hours

- **Battery life — Head:** > 20 hours
- **Low battery indicator**
- **Control panel:** optical and acoustic signalling modes, 3-level sensitivity selection
- **Operational functions:** customizable via HHMD configuration tool
- **Dimensions PD240CH:** 405 x 120 x 40 mm
- **Dimensions HHDS-CH docking station:** 175 x 115 x 85 mm
- **Dimensions carry bag:** 430 x 340 x 105 mm
- **Weight PD240CH:** 460 g (with battery)
- **Weight HHDS-CH docking station:** 755 g (with power adapter)
- **Weight carry bag:** 2.85 kg (with equipment)
- **Operating temperature:** -40°C to +70°C
- **Storage temperature:** -40°C to +80°C
- **Relative humidity:** 0 to 98% (without condensation)
- **Safety features:** manufactured in shock-resistant technical polymers
- **Compliance:** applicable international standards for safety, EMC and CE regulations

Detecting set contents

- 1 PD240CH hand-held patient screener
- 1 HHDS-CH desktop docking station
- 1 detection verification test piece (part # 72131)
- 1 discrimination verification test piece (part # 72132)
- Instruction manual and certificate of calibration
- Universal AC adapter
- US, EU, UK, JP plugs
- Extensible restraint cable
- Carry bag

Reference: -