

# PD240CH

## DUAL SENSING HAND-HELD FERROMAGNETIC DETECTION SYSTEM FOR PATIENT SCREENING PRIOR TO AN MRI EXAM

- **LARGE SEARCH AREA**  
for faster and accurate screening operations
- **HIGH PRECISION PINPOINTING**  
by dual-tone audio signalling & dual-colour display
- **THREE MODES OF OPERATION**  
allow for high-performance ferrous detection, head or full body, or full metals detection in full body
- **PATIENT SAFETY** - Mitigates the risk of an RF burn occurring in the scanner due to either Ferrous or Non-Ferrous Metals
- **DUAL SENSING** - Separate screening for ferrous metallic items or any type of metallic item
- Audible, silent-vibration, and visual-magnitude alert settings
- Customizable interface, energy-saving mode, and sensitivity
- Embedded Long Life Rechargeable Batteries are renewable energy and eliminate the Operational Cost of Alkaline Batteries

The only hand-held MRI patient screening device capable of separately detecting both ferromagnetic and non-ferromagnetic metals, the PD240CH Hand-held Patient Screener provides protection from both adverse magnetic field interaction and potential RF-induced metallic heating.

Designed as a safer and more convenient than similar alternatives, the lightweight portable patient screener has **three analysis modes and a control interface that can be personalized** to refine analysis capabilities based on specific patient needs.



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MRI Safety through Electromagnetics



## SPECIFICATIONS



POWER SUPPLY	PD240CH	2 x AA size Ni-MH, 2500mAh rechargeable batteries
	HHDS-CH DOCKING STATION	AC/DC adapter: 100-240V~, 50-60Hz, 175 mA max
CONTROL PANEL	Optical and acoustic signalling modes	
	3-LEVEL SENSITIVITY selection	<ul style="list-style-type: none"> <li>ALL METALS [ferromagnetic and non-ferromagnetic metals]</li> <li>BODY [small ferromagnetic metals]</li> <li>HEAD [very small ferromagnetic metals]</li> </ul>
DETECTION AND OPERATIONAL FUNCTIONS		Customizable via HHMD Configuration tool
BATTERY	BATTERY LIFE [AA NiMH batteries 2500mAh]	<ul style="list-style-type: none"> <li>ALL METALS: &gt; 50 hours</li> <li>FERROUS METALS BODY: &gt; 20 hours</li> <li>FERROUS METALS HEAD: &gt; 20 hours</li> </ul>
	Low battery indicator	
ENVIRONMENTAL DATA	Operating temperature:	-40°C to +70°C
	Storage temperature:	-40°C to +80°C
RELATIVE HUMIDITY	0 to 98% [without condensation]	
DIMENSIONS	PD240CH	405 mm x 120 mm x 40 mm
	HHDS-CH DOCKING STATION	175 mm x 115 mm x 85 mm
	CARRY BAG	430 mm x 340 mm x 105 mm
WEIGHT	PD240CH	460 g [with battery]
	HHDS-CH DOCKING STATION	755 g [with power adapter]
	CARRY BAG	2,85 kg [with equipment]
COMPLIANCE	Conforms to the applicable international standards for safety, EMC and to the applicable CE regulations	
SAFETY FEATURES	Manufactured in shock-resistant technical polymers	
PD240CH DETECTING SET	1	Hand-held Patient Screener
	2	HHDS-CH desktop docking station
	3	Detection Verification Test Piece: part # 72131
	4	Discrimination Verification Test Piece: part # 72132
	5	Instruction manual / Certificate of Calibration
	6	Universal AC adapter
	7	US, EU, UK, JP plugs
	8	Extensible restraint cable
	9	Carry bag
OPTIONS / ACCESSORIES	PATIENT SCREENER CONFIGURATION TOOL	
	Setting up the Hand-held Patient Screener via USB PC-HHMD connecting cable and GUI application software: part # 63537	



### ANALYSIS MODE SELECTION



#### 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 implanted medical devices (large prostheses)

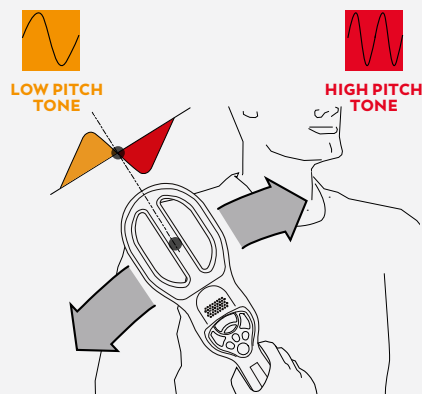


#### HEAD

- High sensitivity to very small ferromagnetic metals (small ferromagnetic fragments)
- Insensitive to medium size non-ferromagnetic implanted medical devices (non-ferromagnetic dental implants, small prostheses)

### HIGH PRECISION PINPOINTING

#### DUAL-TONE AUDIO SIGNALLING



#### DUAL-COLOUR DISPLAY



Both features provide a feedback that allows high-precision localization of metal objects.



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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 conditions of sale. DP100K0017v4001hUK - 104569 (2024)

