

# PD240CH-Z4

VERIFIED &  
VALIDATED EVEN  
IN **ZONE 4\***

## DUAL SENSING HAND-HELD FERROMAGNETIC DETECTOR FOR PATIENT SCREENING PRIOR TO MRI SCANS

- **LARGE SEARCH AREA**  
for faster and accurate screening operations
- **DUAL-TONE AUDIO SIGNALLING & DUAL-COLOUR DISPLAY**  
for high precision pinpointing
- **NON-MAGNETIC CONSTRUCTION, SUITABLE TO OPERATE  
IN ZONE IV**
- **THREE MODES OF OPERATION**  
allow for high-performance ferrous only, detection around the head and body, or full metal detection around the whole body
- **PATIENT SAFETY** - Mitigates the risk of an RF burn occurring in the scanner due to either Ferrous or Non-Ferrous Metals
- **DUAL SENSING** - Capable of separately screening for either ferrous metallic items or any type of metallic item
- Audible and visual-magnitude alert settings
- Visual signalling combined with the audio provide feedback on the location and position of the object under alarm

**PD240CH-Z4 is a portable Hand-held Patient Screener** that allows, according with the operator settings, the detection of magnetic metal masses only or magnetic and non-magnetic metals at the same time. **The only hand-held MRI patient screening device capable of separately detecting both ferrous and non-ferrous metallic items**, the PD240CH-Z4 Hand-held Patient Screener provides protection from both adverse magnetic field interaction and potential RF-induced metallic heating.

PD240CH-Z4 is **designed to be entirely non-ferromagnetic**, therefore it can be used **inside the MRI room (zone 4)** without the risk to be attracted or damaged by the magnets without comprising performance or creating a potential projectile risk.

*\* Test Report available on request*



PERSONALIZE  
THE INTERFACE,  
ENERGY-SAVING  
MODE, AND  
SENSITIVITY



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MRI SAFETY THROUGH ELECTROMAGNETICS



## SPECIFICATIONS

<b>POWER SUPPLY</b>	2 x AA size LS14500 very low ferromagnetic Lithium batteries	
<b>CONTROL PANEL</b>	Optical and acoustic signalling modes	
<b>3-LEVEL SENSITIVITY selection</b>	<ul style="list-style-type: none"> <li>▪ <b>ALL METALS</b> (magnetic and non-magnetic metals)</li> <li>▪ <b>BODY</b> (small magnetic metals)</li> <li>▪ <b>HEAD</b> (very small magnetic metals)</li> </ul>	
<b>DETECTION AND OPERATIONAL FUNCTIONS</b>	Customizable via HHMD Configuration tool	
<b>BATTERY</b>	BATTERY LIFE (AA LS14500 batteries) <ul style="list-style-type: none"> <li>▪ <b>ALL METALS:</b> &gt; 100 hours</li> <li>▪ <b>BODY:</b> &gt; 50 hours</li> <li>▪ <b>HEAD:</b> &gt; 50 hours</li> </ul> Low battery indicator	
<b>ENVIRONMENTAL DATA</b>	Operating temperature: -40°C to +70°C Storage temperature: -40°C to +80°C	
<b>RELATIVE HUMIDITY</b>	0 to 98% (without condensation)	
<b>DIMENSIONS</b>	PD240CH-Z4	405 mm x 120 mm x 40 mm
	CARRY BAG	430 mm x 340 mm x 105 mm
<b>WEIGHT</b>	PD240CH-Z4	420 g (with battery)
	CARRY BAG	2.3 kg (with equipment)
<b>COMPLIANCE</b>	Conforms to the applicable international standards for safety, EMC and to the applicable CE regulations	
<b>SAFETY FEATURES</b>	Manufactured in shock-resistant technical polymers  Full non-magnetic construction, suitable to operate in Zone 4 (with magnets up to 3T) and in proximity of the magnet  Operability and safety of the device have been verified with magnets up to 3T. The test report is available on request	

### PD240CH-Z4 DETECTING SET

- 1 Hand-held Patient Screener
- 2 2+2 AA size non-magnetic batteries: part# 94810 (2 batteries)
- 3 Detection Verification Test Piece: part # 72131
- 4 Discrimination Verification Test Piece: part # 72132
- 5 Instruction manual
- 6 Certificate of Calibration
- 7 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-magnetic implanted medical devices (large prostheses)

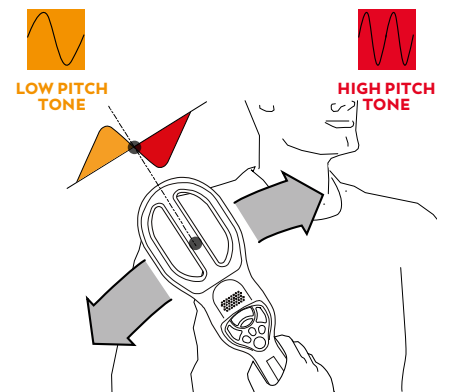


#### HEAD

- High sensitivity to very small ferromagnetic metals (small ferromagnetic fragments)
- Insensitive to medium size non-magnetic 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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