

PD240CH-Z4

VERIFIED &
VALIDATED EVEN
INSIDE THE
MAGNET ROOM*

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

- **NON-MAGNETIC CONSTRUCTION, SUITABLE TO OPERATE INSIDE THE MAGNET ROOM**
- **HIGH PRECISION PINPOINTING**
by dual-tone audio signalling & dual-colour display
- **LARGE SEARCH AREA**
for faster and accurate screening operations
- **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 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 ferromagnetic and non-ferromagnetic metals**, 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*



CUSTOMIZABLE
INTERFACE,
ENERGY-SAVING
MODE, AND
SENSITIVITY



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MRI Safety through Electromagnetics



SPECIFICATIONS



POWER SUPPLY	2 x AA size LS14500 very low ferromagnetic Lithium batteries	
CONTROL PANEL	Optical and acoustic signalling modes	
	3-LEVEL SENSITIVITY selection	▪ ALL METALS [ferromagnetic and non-ferromagnetic metals] ▪ BODY [small ferromagnetic metals] ▪ HEAD [very small ferromagnetic metals]
DETECTION AND OPERATIONAL FUNCTIONS	Customizable via HHMD Configuration tool	
BATTERY	BATTERY LIFE [AA LS14500 batteries]	▪ ALL METALS: > 100 hours ▪ FERROUS METALS BODY: > 50 hours ▪ FERROUS METALS HEAD: > 50 hours
	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-Z4	405 mm x 120 mm x 40 mm
	CARRY BAG	430 mm x 340 mm x 105 mm
WEIGHT	PD240CH-Z4	420 g [with battery]
	CARRY BAG	2.3 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 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-ferromagnetic implanted medical devices (large prostheses)

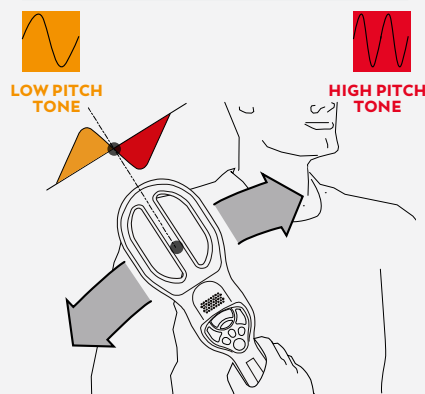


HEAD

- 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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