

PD240CH-Z4

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

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

- **NON-MAGNETIC CONSTRUCTION, SUITABLE TO OPERATE IN ZONE 4**
- **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 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

GSA Contract Holder



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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: -35°F to 158°F
Storage temperature: -35°F to 176°F

RELATIVE HUMIDITY 0 to 98% [without condensation]

DIMENSIONS	PD240CH-Z4	15.9" x 4.7" x 1.6"
	CARRY BAG	17" x 13.4" x 4.1"
WEIGHT	PD240CH-Z4	0.93 lbs [with battery]
	CARRY BAG	5 lbs [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

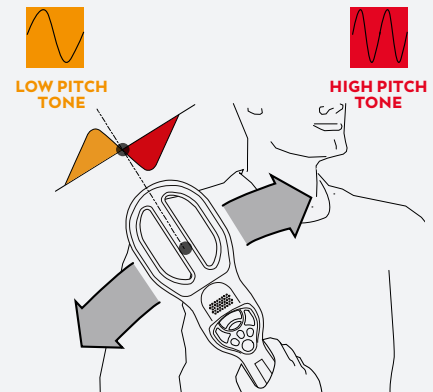
- High sensitivity to small ferromagnetic metals (ferromagnetic fragments, surgical instruments)
- Insensitive to large non-ferromagnetic implanted medical devices (large prostheses)

HEAD

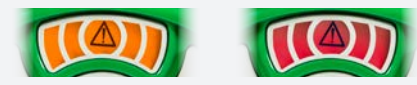
- High sensitivity to very small ferromagnetic metals (small ferromagnetic fragments)
- Insensitive to medium size non-ferromagnetic implanted medical devices (non-ferromagnetic dental implants, small prostheses)

HIGH PRECISION PINPOINTING

DUAL-TONE AUDIO SIGNALING



DUAL-COLOR DISPLAY



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



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