



**ALOKA**  
*illuminate the change*

Electronic Pocket Dosimeter

MYDOSE mini

**PDM-222**

The PDM-222 is a high-sensitive dosimeter to measure Gamma(X)-ray and is a compact enough to fit comfortably in pocket. It is a direct-reading dosimeter which displays an accumulated dose as well as dose rate.

※ it is not suited for measuring less than 100kVp of X-ray tube voltage.

## Features

- Compact enough to fit comfortably in pocket
- Alarm function equipped
- Wide measurement range from  $1\mu\text{Sv}$  to  $10\text{Sv}$
- Accumulated dose and dose rate measuring
- Data holding function
- Easy to see display with backlight

## Specifications

Radiation detected	Gamma and X-ray
Energy threshold	40keV
Detector	Silicon semiconductor
Measurement range	Dose: $1\mu\text{Sv}$ to $10\text{Sv}$ (0.1mrem to 1000 rem), Dose rate: $1\mu\text{Sv/h}$ to $15\text{Sv/h}$ (0.1 mrem/h to 100 rem/h )
Accuracy	Within $\pm 10\%$ from $10\mu\text{Sv}$ to $10\text{Sv}$ (from 1mrem to 1000rem) Calibrated by $^{137}\text{Cs}$ using a slab phantom
Linearity	Within $\pm 20\%$ from $10\mu\text{Sv/h}$ to $1\text{Sv/h}$ (from 1 mrem/h to 100 rem/h)
Energy dependence	Within $\pm 30\%$ from 50 keV to 1.5 MeV (Ref. $^{137}\text{Cs}$ )
Alarm	5-type, Accumulated dose caution and alarm, Elapsed time alarm, Dose rate caution and alarm Approx. 70dBA at 30cm
Waterproof and dustproof	IP54
Display	4-digit LCD with unit and battery indications, built-in backlight
Controls	Power and function switches
Immunity	150V/m: 0.15MHz to 200MHz, 100V/m: 200MHz to 1000MHz (IEC61326-1: 2006)
Power	One lithium battery CR2450 (conforming to IEC 60086-2)
Battery life	Approx. 700 hours of continuous use (at room temperature of 20 degrees C)
Environmental requirements in operation	Temperature: -10 to +50 degrees C Relative humidity: up to 90% (non-condensing)
Dimensions	Approx. 31 (W) x 13 (D) x 140 (H) mm (excluding the clip)
Weight	Approx. 55 g

## Standard configuration

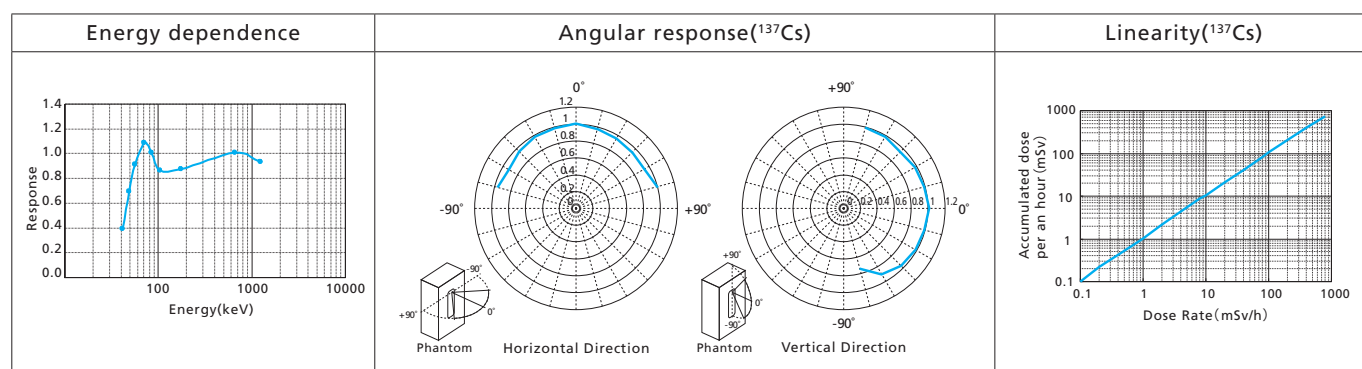
Main unit : 1    Battery : 1    Strap : 1    Instruction manual : 1    Calibration certificate : 1    Inspection pass tag : 1

## Consumable

Lithium battery CR2450 that conforms to the IEC standard, i.e. IEC 60086-2

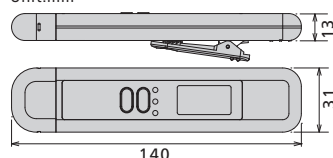
Note: Nonconforming battery may cause a malfunction of the instrument.

## Data for reference



## Dimensions

Unit:mm



※ "rem" display is available as factory setting.  
Specifications are subject to change without notice.

**Alphatech Systems Limited**  
+64 9 580 1959  
sales@alphatech.co.nz

**Hitachi Aloka Medical, Ltd.**

6-22-1, Mure, Mitaka-shi, Tokyo, 181-8622 Japan  
Telephone : +81 422 45 6049    Facsimile : +81 422 45 4058  
[www.hitachi-aloka.com](http://www.hitachi-aloka.com)



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