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# PDM-112

## Features

- \* Clear design
- \* Lightweight (50g only)
- \* Simple operation (on/off switch only)
- \* Recessed power switch to prevent misuse
- \* Accumulated dose storage with no power supply
- \* Strengthened immunity against EMI compared with the former PDM-102



## Application

- \* General dosimetry (monitoring gamma of 40 keV and above in a range from 1 to 9999  $\mu$ Sv)

The PDM-112 is a slim, battery-operated, direct-reading electronic pocket dosimeter which can be worn by strap and clip to avoid accidentally dropping of. The instrument provides a large 4-digit LCD with overflow and low battery indications, which automatically performs an initial test prior to measurement. It continuously displays an accumulated dose and the measured value remains even the power is switched off. The power switch is recessed to prevent the instrument from erroneously turning off and the on/off is the only external control.

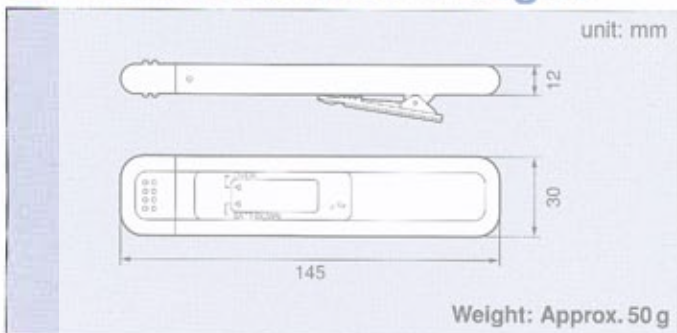
The PDM-112 is useful to a variety of individuals to check own radiation exposure in real time, such as nuclear medicine technician in hospital, research worker in laboratory and university, who handle strong radioisotopes.



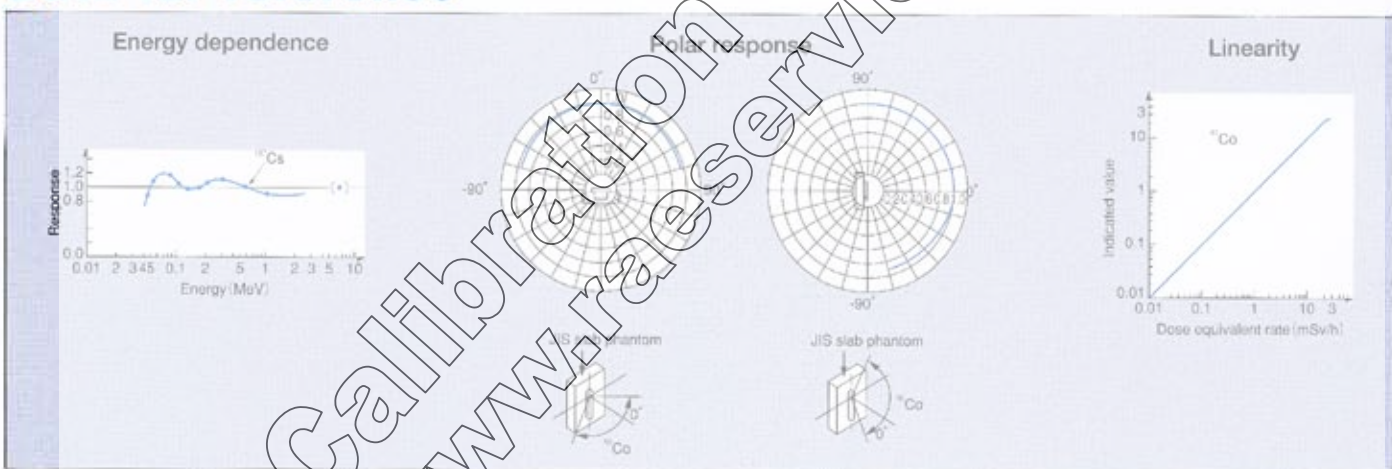
# Specifications

Radiation detected	Gamma (X-ray)
Energy threshold	To receive a calibration and/or repair quote-RMA from R.A.E. Services Inc. Click here>>> <a href="http://www.raeservices.com/services/quote.htm">www.raeservices.com/services/quote.htm</a>
Detector	Silicon Semiconductor
Measurement range	1 to 9999 $\mu$ Sv
Energy dependence	Within $\pm 30\%$ from 50 keV to 3 MeV
Accuracy	Within $\pm 10\%$ from 10 to 9999 $\mu$ Sv (calibrated by $^{137}\text{Cs}$ using a slab phantom)
Linearity	Within $\pm 10\%$ up to 0.1 Sv/h ; within $\pm 20\%$ from 0.1 to 0.3 Sv/h
Display	4-digit LCD
Other	Display test function, overflow indication, low battery indication, data storage function <sup>(1)</sup> <sup>(1)</sup> The measured value is stored unless the battery is removed or the power switch is pressed for ten seconds when turning on the instrument.
Power supply	One lithium battery, CR2450 (coin size)
Battery life	Approx. one month of continuous use
Environmental requirements (in operation)	Temperature : 0 to +45 degrees C Relative humidity : up to 90% (non-condensing)

## Dimensions and weight



## Data for reference



## Standard components

Main unit: 1, battery: 1, strap: 1, instruction manual: 1, inspection pass tag: 1

## Consumable

Lithium battery, CR2450: Available upon request in a 10-battery pack.

Place orders with the supplier of this instrument.

- \* The specifications and/or appearance of this instrument are subject to change without notice.
- \* Thoroughly read the instruction manual before using the instrument to ensure safe use.
- \* Periodic inspection is recommended to maintain performance.
- \* MYDOSE mini™ is a trademark of Aloka Co., Ltd.

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