



ALOKA
illuminate the change

Electronic Pocket Dosemeter
MYDOSE mini

PDM-227



The PDM-227 is a high-sensitive dosimeter to measure X(Gamma)-ray and is a compact enough to fit comfortably in pocket. The instrument is best suited medical device which can measure from 20keV of X(Gamma). It is a direct-reading dosimeter which displays an accumulated dose as well as dose rate.

Features

- Compact enough to fit comfortably in pocket
- Alarm function equipped
- Wide measurement range from $1\mu\text{Sv}$ to 15v
- Accumulated dose and dose rate measuring
- Data holding function
- Easy to see display with backlight

Specifications

Radiation detected	X-ray and Gamma
Energy threshold	20keV
Detector	Silicon semiconductor
Measurement range	Dose: $1\mu\text{Sv}$ to 1 Sv (0.1mrem to 100 rem) Dose rate: $1\mu\text{Sv/h}$ to 100 mSv/h (0.1 mrem/h to 10rem/h)
Accuracy	Within $\pm 10\%$ from $10\mu\text{Sv}$ to 1 Sv (from 1mrem to 100 rem) Calibrated by ^{241}Am using a slab phantom
Linearity	Within $\pm 20\%$ from $10\mu\text{Sv/h}$ to 100 mSv/h (from 1 mrem/h to 10rem/h)
Energy dependence	Within $\pm 30\%$ from 30 keV to 200 keV (Ref. ^{241}Am)
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

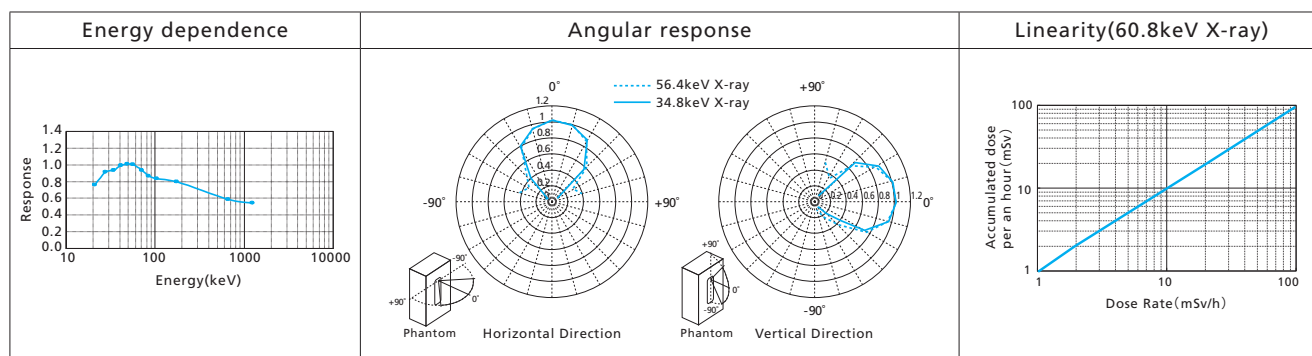
Main unit : 1 Battery : 1 Strap : 1 Instruction manual : 1 Calibration certificate : 1 Inspection pass tag : 1

Consumable

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

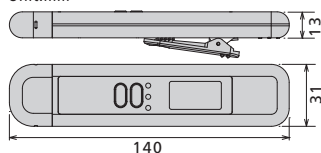
Note: Nonconforming battery may cause a malfunction of the instrument.

Data for reference



Dimensions

Unit:mm



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



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