

DMC-3000 Personal Electronic Dosimeter

- Loud alarm, 85 dB (A) typical, (> 90dB (C) peak)
- Vibrating alarm
- Highly visible backlit display
- Optional telemetry module
- Simple 2-button navigation
- Extended dose rate alarms
- Dual ultrabright LED alarm
- Superior X-ray and gamma energy response
- Meets or exceeds applicable IEC and ANSI standards
- Designed for ruggedness and durability



Physical Characteristics:

- Compliant with IEC 61526Ed. 3, ANSI 42.20 (*)/
- (*) *isotropy ^{241}Am and ^{137}Cs with $\pm 75^\circ$ angle*
- **Measurement and display:** X and gamma energy range: 15 keV to 7 MeV; Energy response better than $\pm 20\%$ (typically $\pm 10\%$) from 16 keV to 7MeV
- **Accuracy Hp(10):** $\leq \pm 10\%$ * (^{137}Cs , ~24 mSv/h); $\leq \pm 15\%$ *, (^{241}Am , ~23 mSv/h); $\leq \pm 19\%$ **X-ray 16 keV (*including $\pm 5\%$ extended uncertainty $k=2$); (** including $\pm 9\%$ extended uncertainty $k=2$)
- **Display units:** mSv, μSv , or mRem
- **Display dose:** 1 μSv to 10 Sv (0.1 mRem to 1000 Rem)
- **Display rate:** 10 $\mu\text{Sv/h}$ to 10 Sv/h (1 mRem/h to 1000 Rem/h) or 1 $\mu\text{Sv/h}$ to 10 Sv/h (0.1 mRem/h to 1000 Rem/h) extended option
- **Measurement range:** 1 μSv to 10 Sv (0.1 mRem to 1000 Rem) 0.1 $\mu\text{Sv/h}$ to 20 Sv/h (0.01 mRem/h to 2000 Rem/h); Saturation indication above 10 Sv (1000 Rem) or 10 Sv/h (1000 Rem/h)
- **Dose Rate Linearity:** $< \pm 20\%$ up to 10 Sv/h (1000 Rem/h) (Co and X H30 20 keV)
 $< \pm 20\%$ up to 6 Sv/h (600 Rem/h) (Pulsed X-rays 20 ms width, 1, 10 & 20 pps)

Electrical Characteristics:

- Standard AAA (LR03) 1.5 V Alkaline battery
- 9 calendar month battery life (typically, 8 h per day, 5 days per week in run mode, without excessive alarms)
- 2500 h battery life in continuous run, without excessive alarm* (*0.2% of the time in alarm)

Mechanical Characteristics:

- Rugged, high impact polycarbonate- ABS case
- Dimensions: 3.4" L x 2.2" W x .08" D without clip
- Weight with alkaline battery and clip: 3.1 oz
- Worn by replaceable clips (2 different style back clips or one front-facing clip for DMC worn inside the pocket)

Alarm Features and Communication

- Alarming speaker with level of 85 dB (A) typical (>90 dB (C) peak) at 30 cm (11.8 in), frequency <4800 Hz
- Vibrating alarm
- High efficiency red flash LED on front
- 3 Top LED's and display indicators
- Dose/rate alarms, adjustable over the display range
- Dose/rate warnings, adjustable over the display range and acknowledgeable
- Remaining time before alarm and run time alarms
- Hands-free communication, frequency: 125 kHz
- Backward compatibility with existing readers (LDM 2000, LDC 220/210)
- Range of communication with LDM 220: 10 cm (3.9 in)

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