

ED3 - Active Extremity Dosimeter



Description

Monitoring the extremities is extremely important when handling radiopharmaceuticals, in cardiology, oncology and in glove box work as whole-body dose may underestimate the extremity dose, especially when there are high dose gradients.

The ED3 Active Extremity Dosimeter provides monitoring of $H_p(0.07)$ for betas and photons (gammas and X-rays) on the extremities.

Probes come pre-calibrated and are interchangeable on the ED3 electronics unit.

Key Characteristics

- Real-time readout for 1—2 detectors
- Measures $H_p(0.07)$ for betas and photons
- Detectors are removable for decontamination or replacement
- Collected data may be analyzed, stored and archived on a PC using the included software
- May be adapted for Eye dosimetry $H_p(3)$

Self-Test and Alarms

- Low Battery
- Missing Probe
- Dose & Dose Rate Alarm
- Dose & Dose Rate Overload

Uses

- Interventional Radiology
- Radiation therapy
- Nuclear Medicine
- Glove Box Applications
- High Dose Gradient Environments

Benefits

- Real time monitoring for dose of record or ALARA
- Better dose assessment in high dose gradients
- Easy to wear
- Dose chain of custody
- Facilitates training



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Technical Specifications

Energy Range: Low Energy Photons - D4 Detector	33 keV* — 60 keV
Betas ^{90}Sr ^{85}Kr	0.31 relative to ^{137}Cs negligible relative to ^{137}Cs
High Energy Photons - D1 Detector	60 KeV — 1.2 MeV
Effective Dose Range	1.0 μSv — 999.9 mSv 0.1 mrem—99.99 rem
Effective Dose Rate Range	0.0 — 99.9 mSv/h 0.0 — 9.99 rem/h
Size & Weight	99 x 60 x 35 mm — 245 g
Environmental	IP53: -20°C to +50°C
Display	16 x 2-character LCD
Battery Life (Rechargeable)	Over 60 hours per charge with normal use



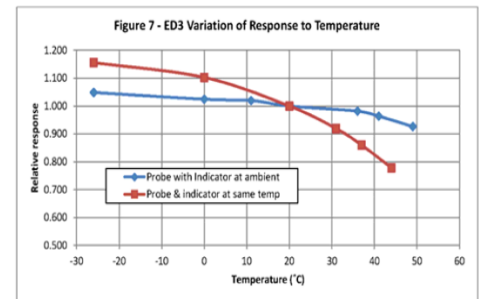
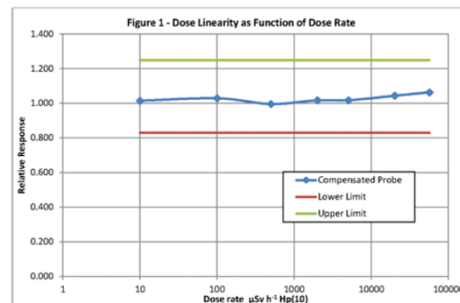
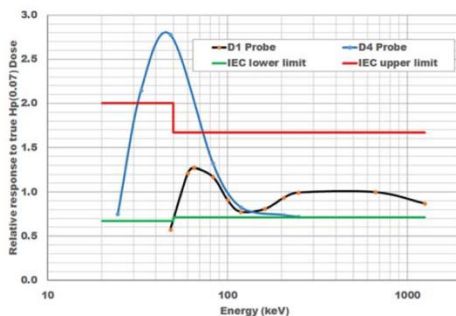
Carrying Case
With Accessories



ED3 Detector
Connectors



ED3 Ports
• USB data,
• Charging
• Power Switch



ED3 Active Extremity Dosimeter

Part number	Description
ED3	Active Extremity Dosimeter for monitoring, collecting and displaying data from 1 or 2 detectors (must be the same type). Supplied with 1 x ED3D1 detector, PC software ED3 Data Manager. An ED3D4 may be substituted for the ED3D1 detector.
ED3D1	Detector designed to measure Hp(0.07) for photons from 60 keV to 1.25 MeV.
ED3D4	Detector designed to measure Hp(0.07) for betas and photons below 60 keV. *Lower energies are possible, but response variability may increase.
ED3 Calibration	Calibration of the ED3 with probes



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