

Model RT-MINI Electronic Personal Dosimeter



RadTarge-Mini

Electronic Personal Dosimeter

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Specifications

Feature	Parameter
Radiological	
<i>Detector</i>	YSO(Ce) scintillator + SiPM
<i>Type of Radiation Detected</i>	Gamma; X-ray
<i>Energy Range</i>	30 keV–3 MeV
<i>Dose Rate Range</i>	1 μ rem/h–10 rem/h (0.01 μ Sv/h–100 mSv/h)
<i>Integrated Dose Range</i>	1 μ rem–999 rem (0.01 μ Sv–9.99 Sv)
<i>Sensitivity</i>	110 cps/mrem/h (11 cps/ μ Sv/h) (\propto Cs-137)
<i>Energy Response</i>	$\leq \pm 30\%$ (\propto Cs-137) @ 30 keV–1.5 MeV
<i>Dose Rate Linearity</i>	$\leq 20\%$ up to 10 rem/h (100 mSv/h)
<i>Accuracy</i>	$\pm 20\%$ (\propto Cs-137)
<i>Alarm Threshold</i>	User-set values for dose rate: 100 μ rem/h–10 rem/h (1 μ Sv/h–100 mSv/h)
<i>Alert Options</i>	Audible (75 dB at 6 in / 15 cm) Visual (LED and display) Vibrating
<i>Alarm Response Time</i>	< 8 s
<i>Overload Display</i>	Activation when > 10 rem/h (100 mSv/h)
Electrical and Mechanical	
<i>Communications</i>	Bluetooth and RadMay (iOS/Android app)
<i>Ergonomics</i>	Front facing tilted screen
<i>Power Supply</i>	Rechargeable lithium-ion battery
<i>Battery Life</i>	Typically 120 h in background field
<i>Display</i>	OLED
<i>Dimensions</i>	2.4 x 1.8 x 0.8 in (60 x 46 x 20 mm)
<i>Weight</i>	2.1 oz (60 g)
<i>Accessories</i>	MicroUSB cable
<i>Initialization Time</i>	< 2 s
Environmental	
<i>Operating Temperature</i>	32–122 °F (0–50 °C)
<i>Storage/Transport Temperature</i>	-4–158 °F (-20–70 °C)
<i>Relative Humidity</i>	$\leq 90\%$ (non-condensing)
<i>IP Rating</i>	TBD
<i>EMI/EMC Compliance</i>	Exceeds IEC 61526 requirements
<i>FCC ID</i>	TBD