ALPHA, BETA, GAMMA & X-RADIATION

Introducing ONYX®

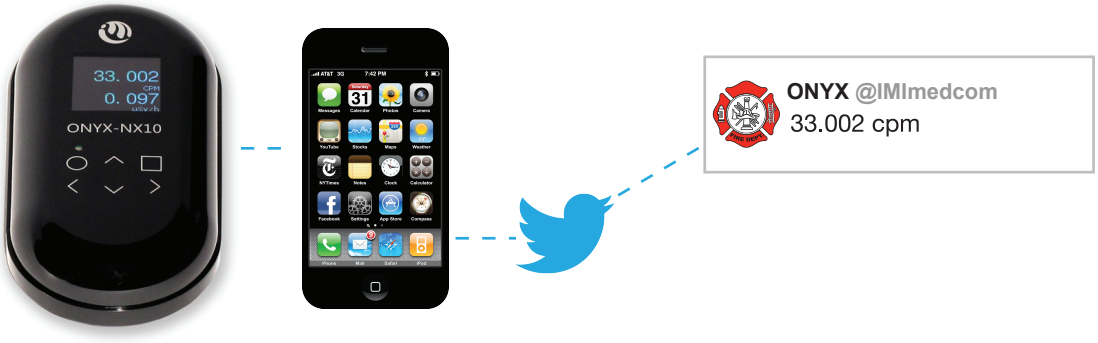
For Radiation Safety and Security

- Smallest radiation detector in its class
- Detects Alpha, Beta, Gamma and X-radiation
- Pancake detector for surface contamination
- Can be used for general survey applications
- Stores and shares data rapidly

Weighs less than 1/2 lb!

Sharing Radiation Data Just Got Easier!

Push radiation data to the cloud with your smartphone



For more informaton contact:
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IMI International Medcom, Inc

Specifications

Detector	LND 7317 “Pancake” Halogen-Quenched Geiger-Mueller tube; Effective diameter 1.75” (45 mm); Mica window density 1.5-2.0 mg/cm2; Detects Alpha, Beta, Gamma and X-radiation		
Display	128×128 color OLED (Organic Light Emitting Diode)		
Operating Range	µSv/hr: .000 to 1,000 mR/hr: .000 to 100 CPM: 0 to 350,000		
Calibration	Cesium-137 (gamma from daughter metastable Barium)		
Gamma Sensitivity	334 CPM per µSv/hr (3340 CPM per mR/hr) referenced to Cs-137		
Efficiencies	**For 2 pi Geometry (typical Efficiencies, primary emissions noted)**		
	Isotopes	**Energy**	**Efficiency**
	Pu - 239	5.245 MeV (alpha primarily)	20 to 36%
	Th - 230	4.621 MeV (alpha)	16 to 36%
	SrY-90	546 keV avg, 2.3 MeV max (beta)	48%
	Cs - 137	Betas (-) 5.6 % - 1,176 keV max (416.3 keV average) 94.4% - 514 keV max (174 keV average) Gamma 661 keV (released by Ba-137m	48%
	Tc - 99	294 keV beta	48 to 56%
Accuracy	+/- 10% typical, +/- 15% maximum		
Alert Range	0 to 99,999 CPM; Beeper sounds alert when warning level feature is activated		
Average	Accumulate/Average feature builds average over time when activated		
Count Light	Red LED flashes with each count		
Audio	Beeper chirps for each count when Geiger Beep function is activated		
Ports	Output: 3.5 mm jack sends pulses to Safecast iPhone application		
Anti-Saturation	Readout holds at full scale in fields up to 100 times the maximum reading		
Temperature Range	-20 to +50 C, -4 to +122 F		
Power	One 3.7 V Lithium Ion battery		
Size	130 X 660 X 230 mm (5.1 X 2.6 X 0.9 inches)		
Weight	200 grams (7 oz) including battery		
Options	USB cable, charger and carrying case available		
Certifications	CE Certified: Emissions: EN 55011:2009 +A1:2010 (Class B emissions limits); EN: 61000-4-2:1995 (ESD); EN 61000-4-3:1997. RoHs Compliant; Meets WEEE Standards		