

# Introducing ONYX®

*For Radiation Safety and Security*



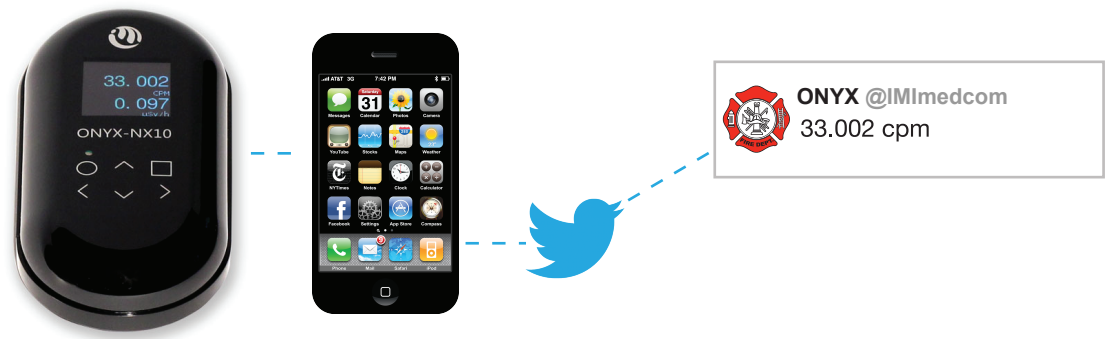
- Smallest radiation detector in its class
- Detects Alpha, Beta, Gamma and X-radiation
- Pancake detector for surface contamination
- Can be used for general survey applications
- Stores and shares data rapidly

*Weights less than 1/2 lb!*



## Sharing Radiation Data Just Got Easier!

Push radiation data to the cloud with your smartphone



For more informaton contact:  
IMI - International Medcom, Inc.  
orders@medcom.com  
707-823-0336  
[www.medcom.com](http://www.medcom.com)



## Specifications

|                          |  |   |                   |
|--------------------------|--|---|-------------------|
| <b>Detector</b>          | LND 7317 "Pancake" Halogen-Quenched Geiger-Mueller tube; Effective diameter 1.75" (45 mm); Mica window density 1.5-2.0 mg/cm <sup>2</sup> ; Detects Alpha, Beta, Gamma and X-radiation |   |                   |
| <b>Display</b>           | 128x128 color OLED (Organic Light Emitting Diode)  |   |                   |
| <b>Operating Range</b>   | μSv/hr: .000 to 1,000<br>mR/hr: .000 to 100<br>CPM: 0 to 350,000   |   |                   |
| <b>Calibration</b>       | Cesium-137 (gamma from daughter metastable Barium)   |   |                   |
| <b>Gamma Sensitivity</b> | 334 CPM per μSv/hr (3340 CPM per mR/hr) referenced to Cs-137   |   |                   |
| <b>Efficiencies</b>      | <b>For 2 pi Geometry (typical Efficiencies, primary emissions noted)</b>   |   |                   |
|                          | <b>Isotopes</b>  | <b>Energy</b>   | <b>Efficiency</b> |
|                          | Pu - 239   | 5.245 MeV<br>(alpha primarily)  | 20 to 36%         |
|                          | Th - 230   | 4.621 MeV (alpha)   | 16 to 36%         |
|                          | SrY-90   | 546 keV avg, 2.3 MeV max<br>(beta)  | 48%               |
|                          | Cs - 137   | Betas (-)<br>5.6 % - 1,176 keV max<br>(416.3 keV average)<br>94.4% - 514 keV max<br>(174 keV average)<br><br>Gamma 661 keV<br>(released by Ba-137m) | 48%               |
|                          | Tc - 99  | 294 keV beta  | 48 to 56%         |
| <b>Accuracy</b>          | +/- 10% typical, +/- 15% maximum   |   |                   |
| <b>Alert Range</b>       | 0 to 99,999 CPM; Beeper sounds alert when warning level feature is activated   |   |                   |
| <b>Average</b>           | Accumulate/Average feature builds average over time when activated   |   |                   |
| <b>Count Light</b>       | Red LED flashes with each count  |   |                   |
| <b>Audio</b>             | Beeper chirps for each count when Geiger Beep function is activated  |   |                   |
| <b>Ports</b>             | Output: 3.5 mm jack sends pulses to Safecast iPhone application  |   |                   |
| <b>Anti-Saturation</b>   | Readout holds at full scale in fields up to 100 times the maximum reading  |   |                   |
| <b>Temperature Range</b> | -20 to +50 C, -4 to +122 F   |   |                   |
| <b>Power</b>             | One 3.7 V Lithium Ion battery  |   |                   |
| <b>Size</b>              | 130 X 660 X 230 mm (5.1 X 2.6 X 0.9 inches)  |   |                   |
| <b>Weight</b>            | 200 grams (7 oz) including battery   |   |                   |
| <b>Options</b>           | USB cable, charger and carrying case available   |   |                   |
| <b>Certifications</b>    | 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                          |   |                   |