

model
Onyx[®]



Sharing Radiation Data Just Got Easier!

Push radiation data to the cloud with your smartphone



Features:

- Display: 128x128 color OLED (Organic Light Emitting Diode)
- Smallest radiation detector in its class
- Detects Alpha, Beta, Gamma and X-radiation
- Pancake detector for surface contamination
- Can be use for general survey applications
- Meets CE Certification, RoHS compliant and WEEE standards
- Demonstrate principles of nuclear physics
- 2 year warranty (GM tube-1 yr warranty)
- Size: 130 x 660 x 230 mm (5.1 x 2.6 x 0.9 in)
Weight: 200 grams (7 oz) including battery



ONYX[®] can be used as a stand alone pocketable instrument, or it can connect to the internet and share data.

The ONYX has a six button touch sensitive keypad that allows for easy use of a wide variety of functions such as graphic display of data, adjustment of audio chirp, data logging, changing units of measurement and calibration. ONYX also permits the user to upgrade the software running on the device to the latest version using a simple internet download feature.

Data reads in a variety of formats (μ R/hr per hour, Counts Per Minute, μ Sv/h and Total Counts – with Timer) on the 128 X 128 color OLED display that measures 1.88 in. (47.9mm.) diagonally. In addition, ONYX is designed to share data through its micro-USB port. Twitter data are transferred using QR code displayed on the OLED in combination with a smart phone with a QR Code scanner.

Detector: 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

Operating Range: μ Sv/hr: .000 to 1,000::: μ R/hr: .000 to 100,000 ::: CPM: 0 to 350,000
Accuracy: \pm 10% typical; \pm 15% maximum
Alert Range: 0 to 99,999 CPM; Beeper sounds the alert when warning level feature is activated
Anti-Saturation: Readout holds at full scale in fields up to 100 times the maximum reading
Audio: Beeper chirps with each count when Geiger Beep function is activated
Averaging: Accumulate/Average feature builds average over time when activated

Count Light: Red LED flashes with each count
Calibration: Cesium-137 (gamma from daughter meta-stable Barium)
Gamma Sensitivity: 334 CPM per μ Sv/hr (3340 CPM per mR/hr) referenced to Cs-137
Efficiency: For 4 pi at contact
Beta C-14 (49 keV avg. 156 keV max.): 5.3% Bi-210 (390 keV avg. 1.2 MeV max.): 32% Sr-90 (546 keV and 2.3 MeV): 38% P-32 (693 keV avg. 1.7 MeV max.): 33% Alpha Am-241 (5.5 MeV): 18%
I-125: Smallest detectable level for I-125 is .02 mCi at contact

Options: USB cable, charger and carrying case available
Ports: Output: Stereo 3.5 mm jack sends pulses to head-set or external data collection devices
Power: One 3.7 V Lithium Ion battery