Model Onyx®
Radiographic Survey Meters

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 chrip, 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 (μR/hr per hour, Counts Per Minute, μSv/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: μSv/hr: .000 to 1,000::: μR/hr: .000 to 100,000 :::: CPM: 0 to 350,000
Accuracy: ± 10% typical; ±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 metastable Barium)
Gamma Sensitivity: 334 CPM per μSv/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 headset or external data collection devices
Power: One 3.7 V Lithium Ion battery

www.dosimeter.com