

# RADIATION ALERT™

# Monitor 200

a  $\beta$   $\gamma$  x



The Monitor 200 measures alpha, beta, gamma, and x-rays. Its digital display shows readings in your choice of CPM, CPS,  $\mu$ Sv/hr, mR/hr, or in accumulated counts. It has a digital display, a red count light, and a beeper that sounds with each count detected. Other features include an adjustable timer, and selectable alert. The free Observer USB Software allows you to set alarms, select preferences, and download your collected data. The Bluetooth and Observer BLE App enables saving, sharing, and automation of surveys and RadResponder compatibility.

### Detector

Halogen-quenched GM tube with thin mica end window. Mica window density 1.5-2.0 mg/cm<sup>2</sup>. Effective window diameter is .360 inch. Side wall is .012 inch thick.

### Operating Range

mR/hr - .001 (1 $\mu$ R) to 200 mR/hr  
 $\mu$ Sv/hr - .01 to 2000  
 CPM - 0 to 235,400  
 CPS - 0 to 3923  
 Timed Count - 1 to 9,999K (9,999,000) counts

### Humidity Range

10% to 70%

### Accuracy

Typically  $\pm$ 15% of reading.  $\pm$ 10% typical (NIST)

### Alert Set Range

mR/hr .001 - 100 and CPM 1 - 350,000  
 Internally mounted beeper. 70db @ 1m.  
 (Can be switched off for silent operation.)

### Count Light

Red LED flashes with each count.

### Outputs

USB and Bluetooth 4.1 for use with included Observer Software and Apps (RadResponder Ready)

### Energy Sensitivity

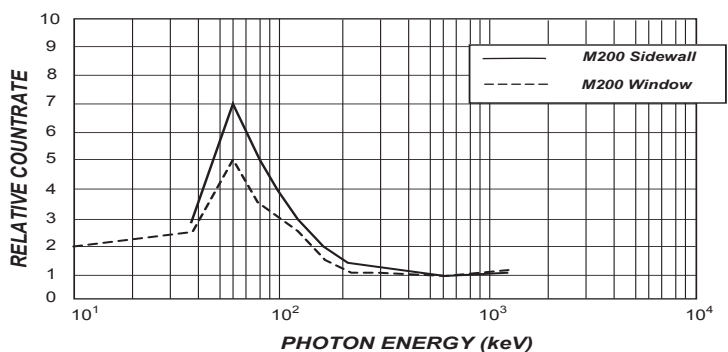
1070 CPM/mR/hr referenced to Cs<sup>137</sup>

- Detects alpha down to 2.5 MeV; typical detection efficiency at 3.6 MeV is greater than 80%.
- Detects beta at 50 keV with typical 35% detection efficiency.
- Detects beta at 150 keV with typical 75% detection efficiency.
- Detects gamma and x-rays down to 10 keV typical through the tube window, 40 keV minimum through the case.

### Size

140 X 68 X 33 mm (5.5 X 2.7 X 1.3 in.)

ENERGY RESPONSE  
 (Relative to Cs-137)



# RADIATION ALERT™ Monitor 200

## Display

Backlit Graphic LCD

## Audio Indicator

Sounds with each count (can be switched off for silent operation)

## Anti-Saturation

Readout will hold at full scale in radiation fields as high as 100 times the maximum reading.

## Power Requirements

USB or 2 AA alkaline batteries. Approx. 500hrs @ background.

## Includes

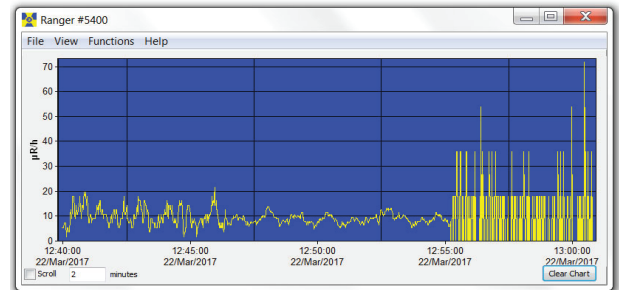
Carrying Case, Xtreme Boot, Stand, Mini-USB Cable, Observer USB Software Download, Certificate of Conformance

## Options

NIST Calibration

## Limited Warranty

1 year limited warranty



USB Observer Software collects data stored in the internal memory of The Monitor 200



Ruggedized boot and Stand Included



Humboldt Scientific, Inc. • [www.humboldtscientific.com](http://www.humboldtscientific.com)

2525 Atlantic Avenue • Raleigh, North Carolina 27604 U.S.A. • 1.800.537.4183 •

1.919.833.3190 • email: [hsi@humboldtmg.com](mailto:hsi@humboldtmg.com)