

Digilert200

Handheld Radiation Alert® Detector



The Digilert 200 measures alpha, beta, gamma, and x-rays. Its digital display shows readings in your choice of counts per minute (CPM), CPS, μ Sv/hr, mR/hr, or in accumulated counts. Now with USB and the included Observer USB Software, you can download your accumulated data from the Digilert200's internal memory, set alarms, and calibrate your instrument!

Detector

Halogen-quenched GM tube with thin mica end window. Mica window density 1.5-2.0 mg/cm². Effective window diameter is .360 inch. Side wall is .012 inch thick.

Operating Range

mR/hr - .001 (1 μ R) to 200 mR/hr

μ Sv/hr - .01 to 2000

CPM - 0 to 214,000

CPS - 0 to 3575

Total/ Timer - 1 to 9,999,000 counts

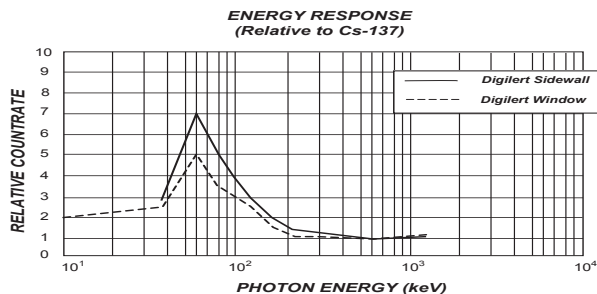
Accuracy

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

Energy Sensitivity

1070 CPM/mR/hr referenced to Cs¹³⁷

- 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 window, 40 keV minimum through the case.



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Contact Humboldt Scientific, Inc. (919) 833-3190
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RADIATION[®]
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Digilert200

Handheld Radiation Alert® Detector

Display

Backlit 4-digit liquid crystal display with mode indicators.

Display updates every 3 seconds.

Count Light

Red LED flashes with each count.

Audio Indicator

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

Alarm

Pulsating beeper sounds the alarm. Three separate adjustable alert levels are used for mR/hr, CPM, μ Sv/hr, and CPS.

Outputs

Dual miniature jack sends counts to CMOS-compatible devices, including computers, data loggers, and educational data collection systems. USB for use with Observer USB Software for PCs

Anti-Saturation

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

Power Requirements

One 9-volt alkaline battery. Battery life is approx. 2000 hours at normal background radiation levels.

Temperature Range

-10° to +50°C (14° to 122°F)

Weight

217 g (7.7 oz.)

Size

150 x 80 x 31 mm (6.1 x 3.1 x 1.2 in.)

Options

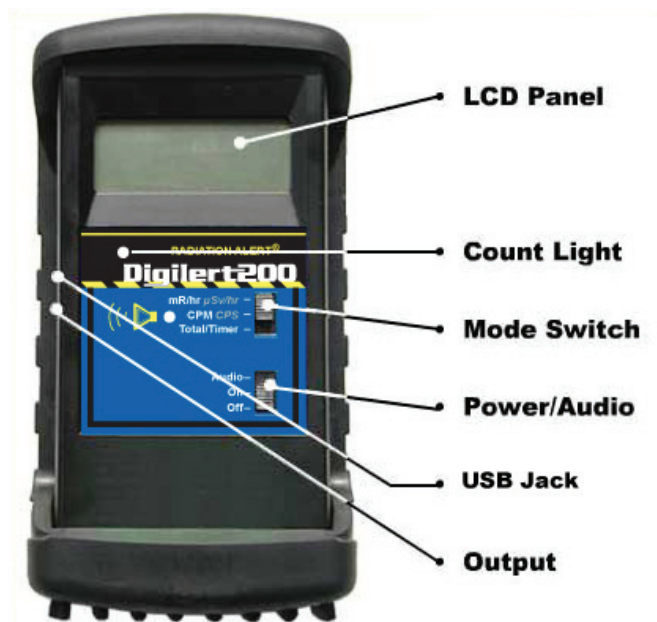
Xtreme Boot & Stand

Limited Warranty

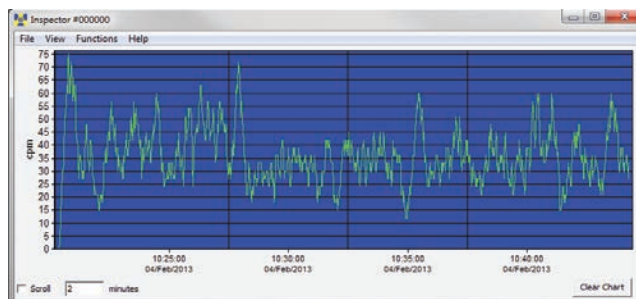
1 year limited warranty



The Xtreme Boot option provides easy access to the buttons.



Digilert 200 shown in Xtreme Boot Above



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

Utility Menu

The Utility Menu offers several options accessible by holding down the + button while turning the instrument on.

- 3 second (fast response)
- Switches from mR/hr and CPM to μ Sv/hr and CPS
- Reset the cal factor to 100.
- Adjust the CAL factor.
- Reset all setting to default factory setting.

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