The Ranger offers maximum performance in a lightweight, rugged solution for surveying at the facility or in the field. The Ranger has been designed for industrial environments, but it still has all of the features you’ve come to love in the lab. The Ranger is a small, handheld, microprocessor-based instrument which offers excellent sensitivity to low levels of alpha, beta, gamma, and x-rays and has built in efficiencies for common isotopes to calculate activity in Bq and DPM. It has a backlit digital display, a red count light, and a beeper that sounds with each count detected. Other features include selectable alert levels, an adjustable timer, and an optional wipe test plate for swipes. Internal memory and the free Observer USB Software that allows you to download your data, set computer alarms, and calibrate your instrument!

Detector
Internal Halogen-quenched, uncompensated GM tube with thin mica window, 1.4-2.0 mg/cm² areal density. Effective diameter of window is 45 mm (1.77 in.).

Averaging Periods
Display will update every 3 seconds. At low background levels, the update is the moving average for the past 30-second time period. The timed period for the moving average decreases as the radiation level increases.

Operating Range
mR/hr - .001 (1μR) to 100 CPM - 0 to 350,000 μSv/hr - .01 to 1000 CPS - 0 to 5000 Total/ Timer - 1 to 9,999,000 counts

Accuracy
(Referenced to Cs137) Typically ±15% from factory, ±10% with NIST Source Calibration

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

Energy Sensitivity
3340 CPM/mR/hr referenced to Cs137
• Detects Alpha down to 2 MeV.
• Detects Beta down to .16 MeV; typical detection efficiency at 1 MeV is approx. 25%.
• Detects Gamma down to 10 KeV through the end window. Smallest detectable level for I¹²⁵ is .02 μCi at contact.

Built-In Efficiencies
⁵Sulfur (S35), ⁹⁶Strontium (Sr/y90), ¹³⁷Cesium (Cs137), ³²Phosphorus (P32), ¹⁴Carbon (C14), ¹³¹Iodine (I131), ⁶⁰Cobalt (Co60), and Alpha

---

SE INTERNATIONAL INC
P.O. Box 39, 436 Farm Rd. Summertown, TN 38483
1-800-293-5759 | Fax: 931-964-3564
www.seintl.com | radiationinfo@seintl.com
Display
Backlit Graphic LCD with Backlight

Count Light
Red LED flashes with each radiation event.

Alert Set Range
mR/hr .001 - 50 and CPM 1 - 160,000. 70db @ 1m.

Alarm Indicator
Internally mounted beeper
(can be switched off for silent operation)

Outputs
USB for use with Observer USB Software Family

Anti-Saturation
Meter will hold at full scale in fields as high as 100 times the maximum reading.

Power Requirements
Two AA alkaline batteries

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

Options
Wipe Test Plate, Swipes, NIST Calibration

Limited Warranty
1 year limited