

All Purpose, Affordable, Beta/Gamma Meter With A Sensitivity To 1 mR/h!

The New Ion Ferret™ Thin Beta Window Low Level Ionization Chamber Survey Meter— Three Meters In One



With its advanced technology, the Ion Ferret all purpose gamma-beta radiation detector replaces three detection devices for one low cost.

- 1 Micro R/h to 10 R/h HPIC Survey Meter
- Skin Equivalent Beta 7 mg/cm Window
- High Sensitivity Area Gamma Monitor

With a sensitivity and dynamic range of 1 μ R/h to 10 R/h, the Ion Ferret all purpose gamma-beta radiation detector performs much better than either G-M counters or scintillation detectors!

The Ion Ferret* also features:

- ◆ Flat energy response
- ◆ Digital and bar graph display
- ◆ Snap-on beta shield 740 mg/cm²
- ◆ Measures/Displays both dose rate and dose
- ◆ Programmable alarm levels
- ◆ High stability at natural background levels
- ◆ Data logging for transfer to PC or area supervisory system
- ◆ Skin equivalent beta window 7 mg/cm² for Carbon 14 and above
- ◆ Very fast response time—readings within seconds
- ◆ Optional bar code reader and wall mount brackets

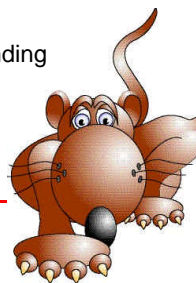
Ion Ferret
Three-In-One
Meter
nicely priced

Ideal For:

- ◆ Homeland Defense
- ◆ Environmental Surveys
- ◆ Personnel Scanning
- ◆ Medical Waste Surveys

* Patent Pending

ION
ALL PURPOSE



FERRET™
GAMMA-BETA RADIATION DETECTOR



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Ion Ferret Gamma/Beta Detector Ionization Chamber/Survey Meter



Multi-Purpose 3-in-1

- ◆ 1 Micro R/h to 10 R/h HPIC Survey Meter
- ◆ Skin Equivalent Beta 7 mg/cm Window
- ◆ High Sensitivity Area Gamma Monitor

Features

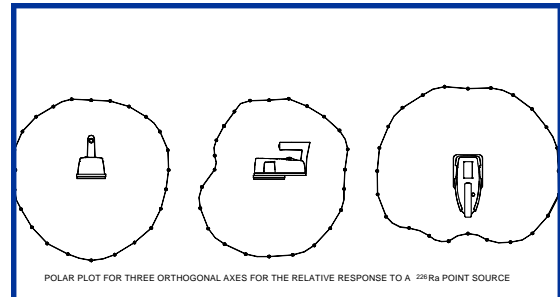
- ◆ **Handheld or Wall Mounted, Battery or A.C. Powered**
- ◆ **Bar Graph and Digital Measurement Display for Rate & Dose**
- ◆ **Peak Hold and Time Display**
- ◆ **Data Logging on Command**
- ◆ **Bar Code Reader**
- ◆ **Ethernet Links, Wireless Link (Optional)**
- ◆ **Calibration via PC**

Accessories

- ◆ **Battery charger (supplied)**
- ◆ **Bar code reader (optional)**
- ◆ **Wireless Link (optional)**

Technical Specifications

- ◆ MEASUREMENT RANGE(S): 0—10 R/h (0—100 mSv/h)
- ◆ RESOLUTION AND ZERO STABILITY: 1 mR/h (10 nSv/h)
- ◆ ANALOG TIME CONSTANT: 4 seconds, 0—100 mR/h, 0.1 seconds @100 mR/h to 10 R/h
- ◆ DIGITAL UPDATE RATE: 4 seconds, low range, 1 second high range
- ◆ STATISTICAL BACKGROUND VARIATION: ± 1 mR/h
- ◆ DOSE: increments of 1 mR, 1 mR
- ◆ ALARMS, ACOUSTIC: computer preset values for dose rate and dose
- ◆ ALARMS VISUAL: display flashes when preset level is exceeded
- ◆ IONIZATION CHAMBER: 400 cc, steel wall 0.025" thick
- ◆ BETA SHIELD: 740 mgm/cm², recessed slide
- ◆ GAMMA ENERGY DEPENDENCE: Flat above 50 Kev sides and top (calculated) Flat above 5 Kev through window
- ◆ BETA RESPONSE: Carbon 14 and higher, 7 mg/cm window
- ◆ GEOTROPISM: See polar plots
- ◆ WARM UP TIME: 5 seconds max
- ◆ OVERLOAD: Recovery at a 4 second exponential rate
- ◆ TEMPERATURE: Zero drift less than ± 1 mR/h for -40° C to $+55^{\circ}$ C
- ◆ RELATIVE HUMIDITY: 0—99 % RH (non condensing). Humidity dependence: None
- ◆ ELECTROMAGNETIC COMPATIBILITY: Not formally tested
- ◆ SEALING: Splash proof
- ◆ POWER: Twin LiIon rechargeable batteries and wall charger (supplied). Operational for 10 hours on fully charged batteries. Charging time 4 hours.
- ◆ SIZE: Body and over handle 7" high x 4 1/4" wide x 8" long
- ◆ WEIGHT: 3 1/2 lbs. (1.6 Kg)
- ◆ COMMUNICATION LINK: RS-232 and Ethernet
- ◆ LOCAL DATA STORAGE: Over 500 KB for data logging purposes. FTP access available for downloading file or view in web browser
- ◆ CALIBRATION: via RS-232 port; parameters set via PC
- ◆ SOFTWARE: None required beyond a terminal emulation program or web browser



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