All Purpose, Affordable, Beta/Gamma Meter With A Sensitivity To 1 μR/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 μR/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:

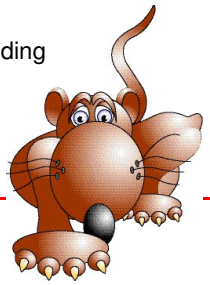
- Flat energy response
- Digital and bar graph display
- Snap-on beta shield 740 mg/cm^2
- Measures/Displays both dose rate and dose
- Programmable alarm levels
- High stability at natural background levels
- Data logging for transfer to PC or area supervisory system
- Skin equivalent beta window 7 mg/cm^2 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

OVERHOFF TECHNOLOGY CORPORATION

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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

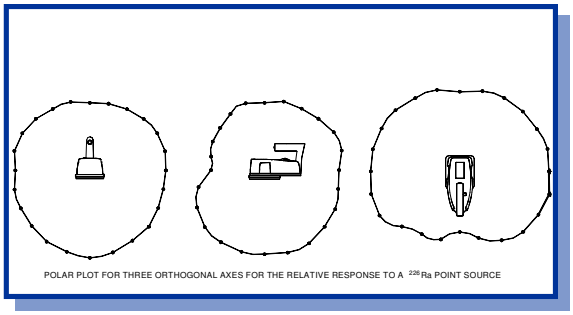
- Handheld or Wall Mounted, Battery or A.C. Powered
- Bar Graph and Digital Measurement Display for Rate & Dose
- Peak Hold and Time Display
- Data Logging on Command
- Bar Code Reader
- Ethernet Links, Wireless Link (Optional)
- Calibration via PC

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 µR/h (10 nSv/h)**
- **ANALOG TIME CONSTANT: 4 seconds, 0—100 µR/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 µR/h**
- **DOSE: increments of 1 µR, 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/cm^2, 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 µR/h for –40˚ C to +55˚ 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**


POLAR PLOT FOR THREE ORTHOGONAL AXES FOR THE RELATIVE RESPONSE TO A ^{226}Ra POINT SOURCE

Ion Ferret Gamma/Beta Detector
Ionization Chamber/Survey Meter

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