

# Frisker

$\alpha \beta \gamma x$

## Handheld Detector

The Radiation Alert® Frisker is a light weight, single-handed radiation contamination instrument that has been designed to meet the demands of today's radiation personnel for leak testing, surface monitoring, sample screening, and personnel screening. By integrating the latest electronics with a proven and dependable Geiger-Mueller detector, S.E. International has created a rugged, ergonomic tool that addresses a number of radiological applications. The Radiation Frisker detects alpha, beta, and gamma with an assortment of units of measure, customizable alarm levels, and a backlit display.

### Specifications

#### Detector

Halogen-quenched GM tube with thin mica end window. Mica window density 1.5-2.0 mg/cm<sup>2</sup>. Effective diameter of window is 45 mm (1.77 in.). Side wall is .012 inch thick.

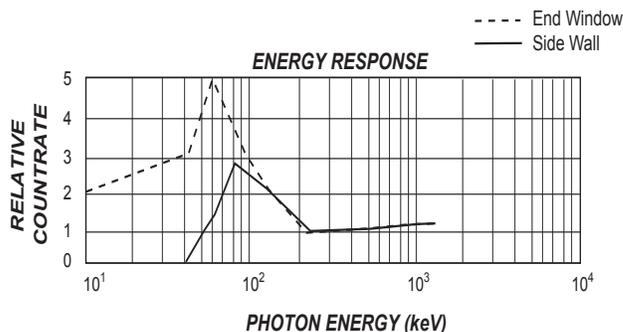
#### Operating Range

Up to 50 mR/h. Instrument begins readings in  $\mu$ R/h and changes to mR/h at 1000  $\mu$ R/h

Up to 500  $\mu$ Sv/h. Instrument begins reading in nSv/h and changes to  $\mu$ Sv/h at 1000 nSv/h

#### Energy Sensitivity

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 detector window. 3600 CPM/mR/hr (137Cs). Smallest detectable level for 125I is .02  $\mu$ Ci at contact.



**S.E. INTERNATIONAL, INC.**

*excellence in radiation detection -  $\alpha \beta \gamma x$*

**RADIATION ALERT®**

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# Radiation Frisker

## Handheld Radiation Alert® Detector



### Accuracy

Reference to Cs137 Typically  $\pm 15\%$  from factory  
 $\pm 10\%$  with NIST Source Calibration NIST Calibration

### Anti-Saturation

Readout will OVERRANGE in radiation fields as high as 100 times the maximum reading.

### Display

Backlit liquid crystal display with mode indicators.

### Alert

Pulsating beeper sounds the alert. Adjustable alert levels are used for  $\mu\text{R/hr}$  / CPM, and  $\text{nSv/hr}$  / CPS.

### Count Light

Red LED flashes with each count.

### Audio Indicator

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

### Power Requirements

Two (2) AA alkaline batteries (included).  
Battery life is approx. 800 hours at normal background radiation levels.

### Temperature Range

$-10^{\circ}$  to  $+50^{\circ}\text{C}$  ( $14^{\circ}$  to  $122^{\circ}\text{F}$ )

### Humidity

10% to 70% Non-Condensing.

### Weight

217 g (7.7 oz.)

### Size

276 x 44 x 64 mm (10.88 x 1.75 x 2.5 in.)

### Includes

Carrying Case, Lanyard, Batteries, and Protective Boot.

### Options

NIST Calibration

### Limited Warranty

1 year limited warranty



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