



Introducing the

## RS-111 HANDHELD GAMMA-RAY SCINTILLOMETER



### *RS-111 – Ideal For Field Exploration*

*The RS-111 Handy Scintillometer is a compact lightweight hand-held gamma ray scintillometer for the geophysical industry. It is easy-to-use with direct survey readout, audio output, full weather protection and is ideally suited for rapid surveying.*

## **Description:**

*The RS-111 is auto-stabilized on the naturally occurring (K, U, & Th) radioactivity and does not require any test sources. The small size and its light weight together with the balanced handle and single thumb button, allows easy one handed operation. The single ON/OFF button also allows easy set up of a limited number of working parameters.*

*The RS-111 features a large numeric LCD display showing actual counts per second (cps). For eyes-free operation the unit has a loud variable pitch audio tone, proportional to the intensity of the gamma radiation detected. The threshold for audio indication is adjustable manually or automatically to compensate for local background interference. The audio indication can be switched off if required.*

*The RS-111 HANDY SCINT has a dustproof, shower proof, lightweight storm (high performance resin) case. Its detachable boot is provided for additional protection in difficult situations.*

*The unit is powered by four AA type batteries. A fully automatic charger is integrated in the unit for use with rechargeable (NiMH) batteries. Alkaline can also be used if necessary.*

## **Features Include:**

- ❑ Good sensitivity with 1.3cu in NaI/Tl crystal
- ❑ LCD display with maximum 19,999 cps
- ❑ Loud audio for eyes-free searching
- ❑ Display updates at 1/sec
- ❑ Audio sampling rate = 4/second for fast response
- ❑ Adjustable audio threshold
- ❑ Plastic protection boot
- ❑ Splashing water and dust resistant (IP66)
- ❑ Lightweight and well balanced (2.9 lbs)
- ❑ Fully automatic charger integrated in unit
- ❑ Supplied in Pelican case with molded insert



*Optional RS-111T with telescopic detector extension*

## **Standard Accessories**

- RS-111 Handy Scintillometer
- Protection Boot
- 4 rechargeable batteries
- AC charger
- User manual
- Storm carrying case

## **OPTIONS**

- RS-111T with telescopic detector extension

## Specifications:

### Detector:

- NaI(Tl), dimension 30 x 30 mm (1.18" x 1.18")  
21.2 cm<sup>3</sup> (1.3 in<sup>3</sup>) integrated with bi-alkali  
Photomultiplier

### Energy response:

- 30 keV – 3.0MeV

### Acoustic response:

- Miniature piezo speaker with audio frequency  
proportional to count rate

### Display:

- 7 segment LCD – 4 ½ segments,  
maximum counts: 19,999 cps,  
reflective for good outdoor visibility

### Control:

- Single push button, thumb activated
- ON/OFF function and background reset

### Power Supply:

- 4 "AA" type battery rechargeable (NiMH) or Alkaline
- Battery life typically:
  - 50 hours at 20° C for NiMH battery
  - 80 hours at 20°C for alkaline battery
- Battery charger is built into the unit

### Temperatures:

- Working temperature range: -10°C - + 50°C
- Storage temperature range: -20°C - + 60°C

### Dimensions:

- 2.6" x 5.7" x 8.7" (65mm x 145mm x 220mm)

### Weight:

- 2.9 lbs (1.3kg) including the batteries



*Specifications subject to change without notice # 01.09*