



# PGIS-2

## PORTABLE GAMMA-RAY SPECTROMETER



The instrument is designed for portable and mobile spectrometry surveys and in a variety of environments.

The system is auto calibrated by natural photo peaks, consisting of a detector unit, integrated with GPS, and a data logger unit based on state-of-the-art Android portable devices, such as a smart-phone, a tablet or a notebook.

The PGIS-2 is based on advanced microprocessor and mobile technologies.

The detector can be equipped with a NaI(Tl) or BGO crystal of various volumes ranging from 0.347 liter up to 4 liters.

The user interface and data acquisition system is based on the Android OS.

Acquired data is automatically synchronized with GPS time and location, and can be displayed in real-time in a waterfall mode, detailed spectra, Concentration of K, U, Th & Cs, identification of man-made radionuclides, dose rate etc. Real-time ground navigation allows the operator to follow a survey grid or way-points on a displayed map that can be prepared as a calibrated image or automatically loaded from Open Street maps.

### SPECIFICATION HIGHLIGHTS

#### PGIS-2

- Detector Volume 0.347 L, NaI(Tl) (or BGO optional)
- Integrated GPS (external GPS receiver connection possible)
- Wireless Data Logger – Android based smart phone
- Removable handle
- Weight 5kg (11lb)

#### PGIS-2-1

- Detector Volume 1 L, NaI(Tl)
- Integrated GPS (external GPS receiver connection possible)
- Wireless Data Logger – Android based smart phone or tablet
- Shock absorbing detector case
- Weight 7.5kg (16.5lb)

#### PGIS-2-2

- Detector Volume 2 L, NaI(Tl)
- Integrated GPS (external GPS receiver connection possible)
- Wireless Data Logger – Android based smart phone or tablet
- Shock absorbing detector case
- Weight 12kg (26.5lb)

#### PGIS-2-4

- Detector Volume 4 L, NaI(Tl)
- Integrated GPS (external GPS receiver connection possible)
- Wireless Data Logger – Android based smart phone or tablet
- Shock absorbing detector case
- Weight 25kg (55lb)