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WG Handheld Radioisotope Identifier



WG Handheld Radioisotope Identifier is a handheld radioisotope identifier, built with Discovery Technology®, the market leading technology for handheld identifiers.

The Radioisotope Identifier uses identification capabilities that have been selected by government for Border Protection and Coast Guard missions based on ID performance, ease of use, and the built-in calibration that completely removes annual maintenance.

SPECIFICATION

Configuration

- Detector types - Gamma: SL20 - LaBr3, SN20 - NaI
- Detectors - 1.5" x 1.5" crystal with Discovery Technology
- Neutron: optional 6Li:ZnS blades
- Weight - 1.85kg (4.1lb)

Performance

- Calibration - $\pm 0.5\%$ at 662 keV in standard operation
- Dose rate range (137Cs) - 1 μ R/hr to 10 R/hr (137Cs), 10 nSv/hr to 100 mSv/hr (137Cs)
- Effective resolution - LaBr3 (1.5%) NaI (3%) at 662 keV (137Cs)
- Energy range (Gamma) - 25 keV to 3 MeV
- Energy Response - 25keV - 3MeV
- Global positioning - Optional: GPS with GLONASS
- Identification - Exceeds ANSI N42.34
- Native resolution - LaBr3 (3%) NaI (8%) at 662 keV (137Cs)
- Neutron GARRn - $0.9 \leq \text{GARRn} \leq 1.1$ 252Cf and 137Cs (10mR/hr) @ 2m
- Neutron option - 252Cf 20,000 n/s @ 2f/x @ 0.25m
- Response time - Start-up 30 seconds. Continuous operation through temperature shock

SPECIFICATION

Input / Output

- Accessories and support - Rugged, water-proof, dust-proof case, Li-Ion 3.4 Ah, 7.2V
- Audio input / output - Input: Internal microphone
- battery (optional: four (4) AA battery adaptor, fast battery charger, carry strap)
- Communications - ANSI N42.42 compliant, USB (optional: Bluetooth; WiFi; satellite phone via USB, 3G) and web interface
- Extended warranty and service agreements available
- Output: Internal speaker and 3.5mm headphone jack
- Power - 110-240V mains and 12-24V car adaptor

Environmental*

- Alerts - Audio, tactile (vibration), LED, and display alerts
- Battery - 8 hrs. operation
- Ingress protection - IP65 per IEC 60529
- Keypad - 3 button, optimised for use with one hand, gloved
- Operating temperature - -32°C to 50°C (-25°F to 122°F)
- PC Interface software - Fully featured event viewer and web interface
- Relative humidity - 3-98% relative humidity, non-condensing, 35°C (95°F)

STANDARD FEATURES

- Advanced algorithms enhance the performance of the gamma detection system and the optional neutron detector is ^3He -free, employing $^6\text{Li}:\text{ZnS}$ technology to achieve class leading handheld sensitivity.
- Class leading reachback software
- Continuous calibration [$\pm 0.5\%$ @ 662keV]
- Exceeds ANSI N42.34
- Fast, accurate, rugged & simple to use
- GPS, 3G, wireless and Bluetooth comms
- Lowest total cost of ownership with zero annual maintenance
- Simultaneous correct ID of multiple isotopes in 30 seconds or less
- Verifies radioactive threats

*Discovery Technology outperforms other systems with the same scintillator by increasing the effective resolution during identification. Contact us for more information on Discovery Technology.

