

# VeriFinder™

## Advanced Handheld Radioisotope Identifier

*detection  
monitoring  
identification*

**radiation**



The VeriFinder is the latest handheld radio-isotope identifier (RIID) from Symetrica, built with Discovery Technology®, the market leading technology for handheld identifiers. The VeriFinder uses identification capabilities that have been selected by the US 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. Advanced algorithms enhance the performance of the gamma detection system and the optional neutron detector is <sup>3</sup>He-free, employing 6 Li:ZnS technology to achieve class leading handheld sensitivity.

### FEATURES

- Verifies radioactive threats
- Fast, accurate, rugged & simple to use
- Simultaneous correct ID of multiple isotopes in 30 seconds or less
- Continuous calibration ( $\pm 0.5\%$  @ 662keV)
- Lowest total cost of ownership with zero annual maintenance
- Exceeds ANSI N42.34
- GPS, 3G, wireless and Bluetooth comms
- Class leading reach back software

### TECHNOLOGY

Discovery Technology is deployed in over 1,000 systems globally from handheld RIIDs to Radiation Portal Monitors. This is the current technology of choice for the US Government for both the Customs and Border Protection agency and the US Coast Guard based on competitive evaluation of ID performance, ease of use, reliability and through life operational cost. With advanced continuous calibration, enhanced algorithms and an inherently rugged design, Discovery Technology in the VeriFinder is ready to deploy in less than a minute and provides class leading operational performance.

# VeriFinder™

## SPECIFICATIONS

### CONFIGURATION

Detectors	1.5" x 1.5" crystal with Discovery Technology
Detector types	Gamma: SL20 - LaBr3, SN20 - NaI Neutron: optional 6 Li:ZnS blades
Weight	4.1lb (1.85kg)
Gamma (LaBr3) 13-14	1.2 x 1.2 in (30 x 30 mm)

### PERFORMANCE

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

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

### ENVIRONMENTAL

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

### INPUT / OUTPUT

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

