

Handheld Gamma Ray Spectroscopy Devices¹

Notes of May 27, 2014

Firm / www site	Contact / e-mail	Phone	Model	Battery Hrs	Wt. Lbs	Alternative ² Gamma Detectors	Electr. Libr. ³ Nr. Spectra x Nr. Ch.	Gamma Dose Rate	Other ² Detector Options
Berkeley Nucleonics berkeleynucleonics.com	Robert Corsetti robert.corsetti@berkeleynucleonics.com	CA 415-453-9955 x250	SAM 940	8	~5	LaBr NaI	10000	Total & ROI	Li n counter GPS
			SAM 935	8	5	NaI	250 x 1024	Total & ROI	3He n counter GPS
Berthold Berthold.com	Mark Morgan mark.morgan@berthold.com	TN 865-483-1488	LB-125	10	2	NaI	30 x 1024	(no)	(no)
Bubble Technology bubbletech.ca	Scott Edelmans scott@pulcir.com	TN 800-862-1390	Microspec-3	9	7	NaI	>72 x 256	Total & ROI	x, ,β, n GPS
Canberra canberra.com	Jim Pearsall cisales@canberra.com	TN 800-243-3955	InSpect.-1000 ⁴	9	4	NaI	256 x 2048	Total & ROI	3He n counter
			Falcon-5000	8	34	HPGe BGO		C Total	3He n counter
ICx Technologies icxt.com	Pat Call pat.call@icxt.com	VA 877-692-2120	Identifinder ⁴	10	2.7	NaI LaBr	100 x 1024	Total	(GM) 3He n counter
			Raider	>6	1.4	CZT	10000	Total	3He n counter
Ludlum ludlums.com	Dru Carson dcarson@ludlums.com	TX 800-622-0828	Model 702	8	5	NaI	10000	Total	(none)
			Model 703	8	7	NaI	10000	Total	(none)
			Model 711	8	5	LaBr	10000	Total	(none)
Ortec ortec-online.com	(Sales) ortec.info@ametek.com	TN 865-482-4411	Detective	~3	26	HPGe	>1000	Total	3He n counter GPS
			microDetective	>3	16	HPGe	>1000	Total	3He n counter GPS
Qal-tek Associates qaltek.com	Ron Ulbrich rulbrich@qaltek.com	ID 888-523-5557	Predator	12	7.45	NaI, CZT	91, 4096	Total	3He n counter
SAIC / Exploranium	(contact through saic.com/products/security web site)		GR-135 Plus ⁴	12	5	NaI CZT	185 x 1024	Total	Li glass n Det.& n dose
Thermo-Fisher thermo.com/rmp (Fmr. Bicon, Eberline, Saint-Gobain)	Mark Deacon mark.deacon@thermo.com	NM 440-487-6427	Interceptor	8	1	CZT	80 x 2048	Total	3He n counter GPS
			Identifinder	8	2.4	NaI CZT LaBr	100 x 1024	Total	3He n counter
			Raider	>6	1.4	CZT	10000	Total	3He n counter
XRF Corp. xrfcorp.com	(Sales) info@xrfcorp.com	MA 781-933-1600 x 23	ICS-4000	24	2	CdTe	300 x 2048	Total(CdTe)	(none)

1 H = Detector, MCA, power supply & readout in one weather-resistant, hand-held piece. C = Requires a separate computer or similar electronics package for readout.

2 Among the device options are vehicle mounted systems, detector crystals in different sizes, probe shields, global positioning system, IR communications and U enrichment calculation. Typical E_y range (keV) & Resol. FWHM: NaI 25-2000, 7%; BGO 100-4000, 11%; CsI 35-3000, 8%; CZT (CdZnTe) 20-1500, 2.5%; HPGe; CdTe 10-2000, 1%; LaBr 20-3000, 2%.

3 Number of nuclide spectra stored in the hand-held device without supporting computer. Reference spectra, text, and links to other sites are on <http://www.inl.gov/gammaray/index.shtml>

and assistance from KRISTIN.N.EVANGELISTA@saic.com Also see the Ortec and Canberra web sites and Gordon Gilmore's 1994 book, "Practical Gamma Ray Spectroscopy," Wiley & Son

4 Energy Solutions (Oak Ridge) rents handheld spectroscopy devices and other equipment, www.energysolutions.com Training, Instrumentation, Ph 877/462-4873.

Conference of Radiation Control Program Directors (CRCPD) www.crcpd.org

For addition or correction of information, please contact Russ Meyer (rmeyer@crcpd.org)

This information is not to be construed as an endorsement by CRCPD, of the products and services identified in this list.