



FEATURES

- Very sensitive nuclear detection and real-time identification
- For mobile use: car, boat, helicopter or airplane
- Potential radiological threat search with Homeland Security algorithm
- After event contamination mapping
- Versatile configuration 1 to 4 detectors, 2 to 16 liters NaI(Tl)
- Rugged detection case and wireless tablet PC
- GPS and mapping function

SPIR-IDENT MOBILE Carborne and Airborne Spectrometry

SPIR-Ident Mobile system, is a movable radiation monitoring system, developed for vehicle, helicopter and aircraft use.

It is a ruggedized and friendly deployable equipment with the higher existing capability for both detection and identification of radioactive sources.

This system especially allows to detect artificial gamma isotopes among varying natural isotopes when used as an airborne or carborne system for the purpose of contamination evaluation and unattended source search.

health physics

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Featuring:



DESCRIPTION

- 1 to 4 detection units including 1 or 2 NaI(Tl) detectors (2 or 4 liter), MCAs and optional neutron detectors
- 1 interface unit with WiFi or wire PC link batteries, charger, DC and AC power supply
- 1 wireless ruggedized tablet PC with GPS
- SIA identification algorithm designed for challenging Homeland Security issues
- Simplified SpirMOBILE interface, based on GoogleEarth or RadiaMap interface based on ESRI Geographical Information System
- Optional altitude acquisition module
- Option remote transmission and remote commander station



FUNCTIONS

- 1 second continuous elementary spectra acquisition and stabilization
- Count rate/dose rate profile display
- Single total channel or multi channels parallel operation
- Continuous sliding spectra identification.
- Alarm filtering according customer criteria
- Simplified panel display (level/ ID; instant or trend)
- Expert display (spectra, trend, raw and filtered ID)
- Mapping: trajectory with level indication and alerts locations flags
- Georeferenced database and replay capability

PERFORMANCES

- Typical 4 liters detector: for 137Cs, 8% resolution and 37cps per nSv/h sensitivity
- 1024 channels fast MCA, one per detector
- Energy range 30keV to 3 MeV
- Identification up to 4 isotopes mixed (in addition of

background), with confidence level and quantification indication

- Isotopes list according ANSI N42-34, N42-38, IEC62327, IEC 62484 draft, IAEA Tecdoc
- User selectable alarm criteria
- User calibration for quantification output

NORM:	40K, 226Ra and daughters, 232Th and daughters
Medical:	18F, 51Cr, 67Ga, 99Mo , 99mTc, 103Pd, 111In, 123I, 125I, 131I, 133Xe, 163Sm, 201Tl
Industrial:	22Na, 57Co, 60Co, 75Se, 133Ba, 137Cs, 152Eu, 192Ir, 241Am
SNM:	233U, 235U, 238U, 239Pu, 237Np (with enrichment indication capability LEU/HEU; LB/MB/HB Pu)

CHARACTERISTICS

- Polyester resin strengthened with glass fiber containers
- Size:
 - Single detector case: 84x24x24cm (33x9x9 in), 18 kg (39.7 lb) (2l), 24 kg (52.9 lb) (4l)
 - Double detector case: 90x42x33cm (35x16x13 in), 35kg (77 lb) (2l), 49 kg (108 lb) (4l)
 - Interface case: 90x43x33 cm (35x17x13 in), 20 kg (44 lb)
 - Roof case 4 detectors (2l): 195x130x50cm (76x51x19 in), 120 kg (264.5 lb)
- Operating temperature range:
 - -20°C to +50°C (-68°F to +122°F), temperature shock protected
- Power supply: vehicle 10-30 VDC or main 85- 264 VAC



Roof case



Double detector case



Interface case



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