



SPIR-Pack G

Human Portable Detection and Identification



Nuclear Power



Healthcare



Homeland Security & Defense



Labs and Education



Industrial and Manufacturing

OVERVIEW

SPIR-Pack G is a backpack device which provides discrete search and identification of radiological and nuclear materials and for mapping of contaminated areas that may be difficult to access by vehicle.

SPIR-Pack G is based on the “detection by identification” concept to alarm in case of real threat only while removing the false alarm generated by the background variation. It is a highly performing system for heavily shielded and complex masking scenarios by passing by.

Thanks to the **SpirMOBILE Viewer** application installed on an Android Smartphone the real-time measurement and identification results are displayed, as well as the alarms that can also be transferred to a Bluetooth headset for a discreet monitoring.

The Tablet PC of the **SPIR-Pack G** provides advanced functionalities such as real-time mapping, spectra display, image or video recording in the event of alarm...

The **SPIR-Pack G** is a compact and human portable system suited for special forces, large scale event security organizations and environmental agencies.

KEY FEATURES

- Human portable radiation detection system
- Real-time mapping
- Hand-free operation
- Discrete monitoring in densely populated areas or crowd during events
- Instant identification of complex scenarios of masking and/or shielding
- Direct confirmation of the detection and the nature of the threat
- Expert or simplified mode
- Information transfer to Smartphone or Tablet PC
- Remote supervision with **SpirVIEW MOBILE** or any other installed supervision system

RELATED PRODUCTS

- **SPIR-Ident Mobile**
- **SpirVIEW MOBILE** and **SpirTRAINING** software

SPiR-Pack G | Human Portable Detection and Identification

NUCLEAR CHARACTERISTICS

- Detectors
 - NaI (TI): 3" x 3"
 - Geiger Muller for high dose rate
- Energy range : 25 keV to 3 MeV (gamma)
- Sensitivity : 4 cp/s per nSv/h for Cs-137
- Dose rate range :
 - NaI (TI) : 1 nSv/h to 30 µSv/h
 - GM : 5 µSv/h to 9999 µSv/h
- Identification
 - fast digital MCA, 1024 channels
 - throughput > 100 000 cps
- Continuous stabilization and acquisition of spectra, no field calibration needed

FUNCTIONAL FEATURES

- Rugged Tablet with a sun readable 7" screen
- Imbedded GPS
- USB plug
- Autonomy up to 14 hours
- SpirIDENT Suite software
- Alarms
 - Smartphone : visual, audible and vibration alarms with release
 - Bluetooth headset : audible message
 - Danger alarm
- Bluetooth, WiFi, cellular communications
 - data export
 - Remote control

MECHANICAL FEATURES

- Dimensions :
450 mm x 330 mm x 250 mm (17.7 in x 12.9 in x 9.8 in)
- Weight for :
 - transport 8,8kg (19 lbs)
 - operation 6,8kg (14.5 lbs)

ENVIRONMENTAL CHARACTERISTICS

- Temperature range :
 - storage : -30°C to +60°C (-22°F to 140°F)
 - Tablet PC into the backpack : -20° C to +40°C (-4°F to 104°F)
 - Tablet PC out of the backpack : -20°C to +50°C (-4°F to 122°F)
- IP54 protection
- Electromagnetic compatibility : CE marking, CE61000 standard

IDENTPRO/SIA IDENTIFICATION ALGORITHM

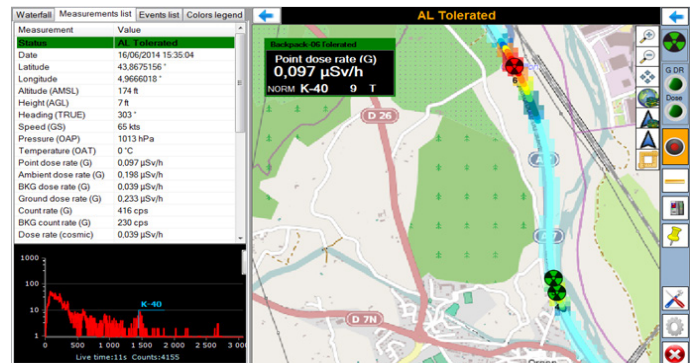
- Identification of approximately 90 radionuclides
- Up to 8 mixed radionuclides
- Masking and highly shielded scenarios exceeding current standards
- Confidence level indication, radionuclides and its categorization
- Radionuclide library :
 - Homeland Security
 - Nuclear Power Plant and radioactive waste
 - Nuclear accident
 - Fuel cycle
 - CTBTO/ OSI
 - Laboratories and miscellaneous

ACCESSORIES

- Tablet PC : power supply cable, docking station
- Smartphone: power supply cable
- Bluetooth headset
- SpirREPLAY and SMI software

OPTIONS

- SpirTRAINING software for a sourceless training
- SpirVIEW MOBILE software for mobile units supervision on a single map



SpirMOBILE Express operator interface for mobile monitoring



SPiR-Pack G in operation within an airport and a parking

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