

SPIR IDENT

Advanced Spectroscopic Vehicle Monitor



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The SPIR IDENT is the most advanced detector of the SPIR family and a new concept for site and critical infrastructure protection against radiological threats, such as intrusion of special nuclear materials (SNM) or radiological dispersion devices (RDD)

The SPIR IDENT is able to solve the major limitation of current systems by automatically sorting innocent alarms from actual alarms in real-time, without compromising the detection performances of actual SNM, RDD or unexpected radioactive sources.

The SPIR IDENT Vehicle Portal is intended for secondary screening as a complement to plastic scintillation-based detection portals. The SPIR IDENT provides a cost and performance effective solution and an alternative to dynamic Advance Spectroscopic Portals (ASP's) for vehicle and containers.



FEATURES...

Identification of gamma sources and Special Nuclear Materials in vehicles and containers cost effective secondary screening solution

- Single or double sided, single or double height
- Masked and shielded SNM and RDD identification
- NORM and in vivo medical source rejection
- Simplified operation with full camera support
- «Easy» display mode and expert (advanced) mode

TECHNICAL SPECIFICATIONS:

Description

- 1 to 4 detection pillars including each a 2 or 4 liter NaI (TI) detector and fast spectrometer
- standard or panel PC with SPIR-Ident server and portal – easy and expert interface
- includes SIA identification algorithm designed for challenging HLS issues as «Masked SNM»
- remote camera control option

Algorithm Processing

- 1 second continuous elementary spectra acquisition and stabilization, dose rate calculation, alert criteria monitoring and identification per channel and group of channels
- spectra accumulation during occupancy for preset time with resume capability
- automated report per measurement including pictures. User comments can be included
- sliding spectra analysis between occupancies to monitor background and for quick vehicle dose rate profile analysis
- choice of human interface: portal control mode, easy panel mode, expert mode

Performances

- isotope list: Industrial, SNM, Medical and NORM according to ANSI and IAEA standards
- identification capability:
 - according to configuration, designed to exceed ANSI 42-38
 - example: identifies 10 μCi ^{137}Cs shielded with 3cm iron (ANSI requirement 85 μCi)

Communication

- Bluetooth, Wi-Fi, radio-modem
- Ethernet (network) connectivity



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