



SPIR - Ident

Site Protection Against Intrusion of Radioactive Material

Advanced Spectroscopic Vehicle Portal

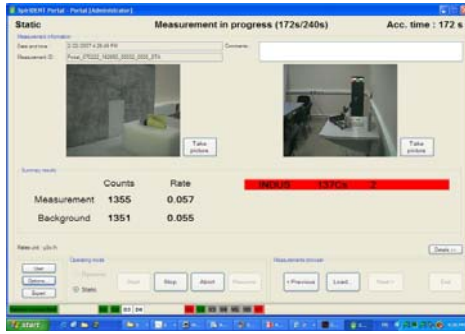
- Identification of gamma sources and SNM material in vehicles and containers

- cost effective secondary screening solution
- masked and shielded SNM and RDD identification
- NORM and in vivo medical source rejection
- simplified operation with full camera support
- single or double sided, single or double height

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

The SPIR-Ident is able to solve the major limitation of the 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.

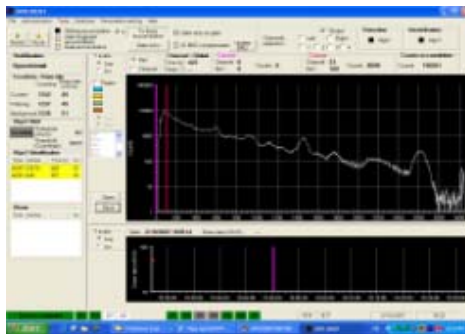
The SPIR-Ident vehicle portal is intended for secondary screening as a compliment to plastic scintillation-based detection portals. The SPIR-Ident provides a cost and performance effective solution and alternative to dynamic «ASP's» for vehicles and containers.



Portal interface display example (1 μ Ci 137Cs)

Channel	Rate	Rate 1kg	Counts	Counts 1kg	Detector 1			Detector 2			Detector 3			Detector 4			
					Type	Detector	CL	Type	Detector	CL	Type	Detector	CL	Type	Detector	CL	
V1	0.087	0.083	1377	1363													
V2	0.055	0.057	1369	1386													
total	0.096	0.085	1373	1384													

Portal interface detailed results



Expert mode display

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 software + Panel, Portal and Expert mode interface
- Includes SIA identification algorithm designed for challenging HLS issues
- remote cameras control option

Functions

- 1 second continuous elementary spectra acquisition and stabilization
- count rate and dose rate calculation, alert criteria monitoring
- real time 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 vehicle profile analysis

Performances

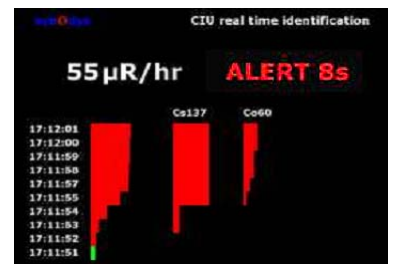
- isotope list: according to ANSI N42-38 and IAEA standards main Industrial, SNM, Medical and NORM radionuclides
- identification capability:
 - according to configuration, designed to exceed ANSI N42-38 (vehicle, static mode)
 - example: identifies 10 μ Ci 137Cs shielded with 3cm iron (ANSI requirement: 85 μ Ci)
 - includes special processing for shielded or masked isotopes for example SNM masked by medicals or NORMs
 - U and Pu enrichment indication

Communication

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



Panel mode display



Graphic «Waterfall» display

138500B

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As standards, specifications and design change from time to time, please ask for confirmation of the information given in this publication.