

# SPIR IDENT

Spectroscopic Pedestrian Portal 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 Pedestrian Portal is intended for dynamic mode detection and identification (for pedestrian passage through the detection volume). It can be configured for use with or without an occupancy detector or ancillary cameras.

## FEATURES...

- Dynamic pass through mode
- Effective real time Medical and NORM rejection
- Single, double sided and multiple pillars for passageways
- Masked and shielded SNM and RDD identification
- Automated operation with full camera support
- «Easy» display and expert (advanced) modes
- Automated log with spectrum and image capture

## 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 N42-38 for pedestrian in dynamic mode
  - complies with IAEA requirements for pedestrian portal with indication of innocent/nuisance alarms due to medical radionuclides

### Communication

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



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