



# SPIR-IDENT PEDESTRIAN GN

Spectroscopic Portal Monitor



Nuclear  
Power



Healthcare



Homeland  
Security  
& Defense



Labs and  
Education



Industrial and  
Manufacturing

## OVERVIEW

The SPIR-IDENT PEDESTRIAN GN is a combined gamma and neutron spectrometric portal. It 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 PEDESTRIAN GN 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 GN is intended for dynamic detection and identification mode. It applies for pedestrian, luggages, small items or parcels monitoring. It can be configured for use with or without an occupancy detector or ancillary cameras.

## KEY FEATURES

- Gamma and neutron detectors
- Dynamic pass through mode
- Effective real-time Medical and NORM rejection
- Single, double sided and multiple pillars for passage ways
- Masked and shielded SNM and RDD identification
- Automated operation with full camera support
- “Easy” display and advanced modes
- Automated log with spectrum and image capture

## DESCRIPTION

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- 1 to 4 detection pillars including each a 2 or 4 liter NaI(Tl) gamma detector and 1 or 2 moderated He3 or BF3 neutron detectors
- 3 sided lead shielding
- Each gamma detector is associated with a fast digital spectrometer
- Standard or Panel PC with SPIR-IDENT Server software, Portal and Expert mode interface
- Includes SIA identification algorithm designed for challenging Homeland Security issues
- Remote cameras control option
- With or without occupancy signal

## FUNCTIONS

- 0,5 second continuous elementary spectra acquisition and stabilization (sourceless)
- Count rate and dose rate calculation, alert criteria monitoring
- Self-triggered spectra accumulation capability if alert
- Real-time identification per channel and group of channels
- Automated results and pictures capture every half second during alarms
- Sliding spectra analysis between occupancies to monitor background
- Manually triggered static mode available for identification confirmation

## PERFORMANCES

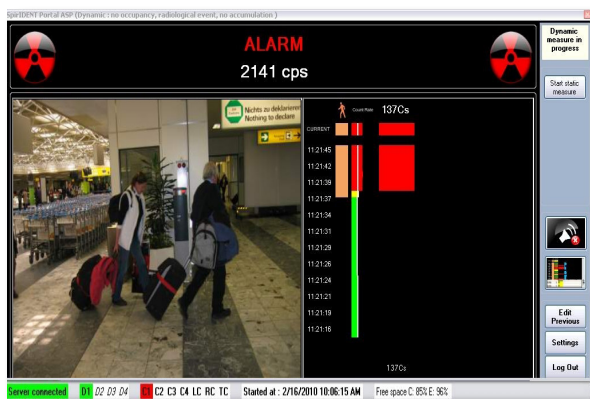
- Isotope list: according to ANSI N42-38, IEC, IAEA standards Industrial, SNM, Medical and NORM radionuclides
- Gamma detection and identification capability:
  - according to configuration, designed to exceed ANSI N42-38 for pedestrian in dynamic mode
  - includes special processing for masked Isotopes such as SNM masked by medicals or NORMs
- Neutron detection capability:
  - according to configuration, designed to exceed ANSI N42-38 / IAEA recommendation for pedestrian in dynamic mode

## COMMUNICATION

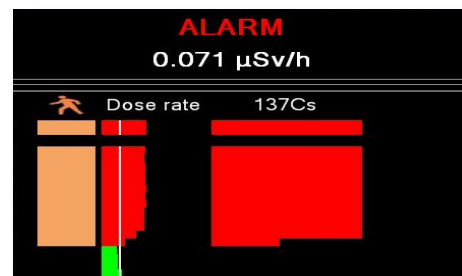
- Ethernet (network) connectivity

## DIMENSIONS

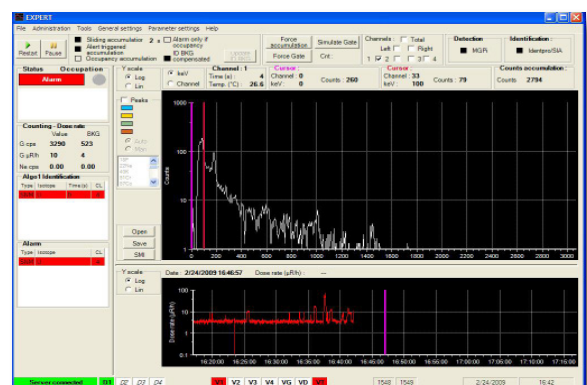
- Body: 148 x 50,2 x 22,2 cm (57 x 19,73 x 8,74 in)
- Base: Ø 32 cm (12.6 in)
- Weight: 62 kg (137 lb)



Portal interface display



Graphic «waterfall» display



Expert interface display

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