SPIR-IDENT PEDESTRIAN

Spectroscopic Portal Monitor

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 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.

FEATURES

- 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

health physics

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Featuring:

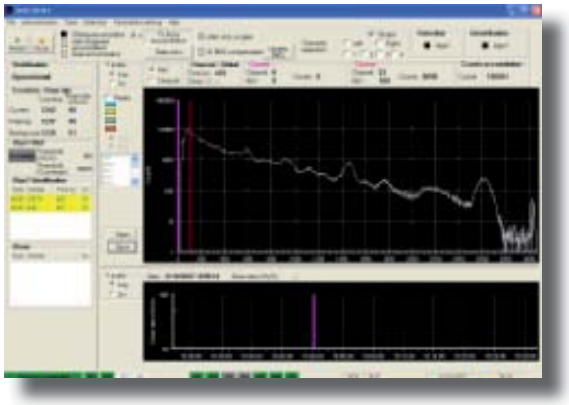
MGP INSTRUMENTS

DESCRIPTION

- 1 to 4 detection pillars including each a 2 or 4 liter NaI(Tl) detector and fast 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

- 1 second continuous elementary spectra acquisition and stabilization
- 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 second during alarms
- Sliding spectra analysis between occupancies to monitor background
- Manually triggered static mode available for identification confirmation



Expert mode display

PERFORMANCES

- **Isotope list:**
  according to ANSI N42-38 and IAEA standards Industrial, SNM, Medical and NORM radionuclides
- **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
  - includes special processing for masked Isotopes such as SNM masked by medicals or NORMs
  - U enrichment and Pu burn-up indication

COMMUNICATION

- RS232 and RS485
- Options: Ethernet or Wi-Fi

DIMENSIONS

- Body: 144 x 28 x 20 cm (57 x 11 x 8 in)
- Base: Ø 32 cm (12.6 in)
- Weight: 30 kg (66 lbs)

Graphic «waterfall» display

Portal interface display example (1µCi ^{137}cs)

MIRION TECHNOLOGIES Health Physics Division

www.mirion.com
144206EN-E

> 上海富蓝机电设备有限公司
上海市江场三路88号801室，200436
电话：021-66315361
传真：021-66528796