

SPIR DETECT

Unattended Area Radiation Monitor



SPIR DETECT

Unattended Area Radiation Monitor

SPIR-Detect is a new concept for site or critical infrastructure protection against radiological threat, like intrusion of special nuclear materials(SNM) or radiological dispersion devices (RDD).

Based on a network of sensitive gamma/neutron detectors, that can be mobile, or permanently or temporary installed, the system features a discrete and centralized survey of access points, inside buildings or outside.

SPIR-Detect is the perfect solution for people or luggage checking in airports, railway stations and in sensitive places during special events (e.g.sports or cultural).

FEATURES...

- High sensitivity and fast response using HDS-100GN
- Triple use : source detection, search and isotope discrimination
- Discrete
- Easy to deploy
- Network configuration
- Fixed or mobile installation

TECHNICAL SPECIFICATIONS:

Description

- The SPIR-Detect system is configurable for:
 - mobile radiation monitoring
 - temporary deployed radiation monitoring
 - permanently or fixed installed monitoring
- removable HDS-100GN search and surveillance
- central management software

Algorithm Processing

- continuous spectra acquisition and stabilization (0.2s time slot)
- continuous dose rate and count rate comparison to background
- Varying Background Suppression algorithm (VBS) continuously analyses the spectra shape and rejects alerts due to sudden background changes.
- NORM Medical Discrimination algorithm (NMD) categorizes and identifies up to 4 simultaneous isotopes. Cumulated spectra can be triggered by alert detection or on request.

Functional Features

- three modes: detection, search and integration
- three users profile: routine, expert, custom
- alert threshold configurable for dose rate and/or number of sigma level increase
- safety alarm
- pre-loaded languages
- historical record with more than 1000 events/measurements and 60 spectra
- Bluetooth®, RS232 and USB interfaces
- audio output for earphone
- designed to meet/exceed ANSI 42-33, Type I & II and to IAEA standards

Electrical & Mechanical Characteristics

- power supply: 6 x AA batteries (Ni-MH rechargeable)
- battery life time: 30 hours typical
- dimensions (l x Ø): 280 x 78 mm (11 x 3.1 in)
- weight: 1500 g (52.9 oz)

Environmental Characteristics

- temperature range: -20°C to 50°C (-4°F to 122°F)
- humidity: < 90% at 42°C (108°F)
- EMI, shock, vibration and drop resistant
- water-proof (IP54)
- CE approved

Accessories

- shoulder strap
- USB cable
- transportation case
- HDSMASS and SMI software
- power supply/charger/wall-mount charger

