SPIR DETECT

Unattended Area Radiation Monitor

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SPIR-Detect is a new concept for site or critical infrastructure pro tection 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 ortemporary 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 lug- gage checking in airports, railway stations and in sensi- tive 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
- Fxed 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

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LAURUS Systems, Inc. - Ph: 410-465-5558 - Fax: 410-465-5257 - www.LaurusSystems.com