

HDS-100G/GN

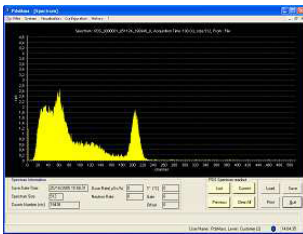
Handheld Gamma Neutron Search Instrument

- Search and identification of gamma and neutron radioactive materials
 - Fulfills all requirements of Homeland Security applications
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- higher sensitivity than Personal Radiation Detectors or Alarming devices
 - gamma & neutron independent channels
 - real time identification
 - clear discrimination between NORM, Medical, Industrial and SNM materials
 - visual and audible alarms
 - wireless communication interface
 - complies and exceeds ITRAP and ANSI standards
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HDS-100G and HDS-100GN are portable devices designed to search for any radioactive materials and to respond to incidents involving Radiological Dispersal Devices.

They feature the capability to identify the detected isotope and characterize its category from medical, industrial, natural occurring radioactive materials (NORM) and special nuclear materials (SNM). Because of their high sensitivity, they can be used to verify any alarm triggered by an alarm detector, to locate sources and to measure radiation levels.

These products are ideally suited for First Responders, Border Control, Customs inspectors, site security in critical infrastructures, and for all missions related to the control of nuclear materials.



Nuclear characteristics

- **detectors:**
 - gamma CsI
 - neutron Li6
- **energy range:**
 - 30 Kev to 2 MeV (gamma)
 - 0.025 eV to 15 MeV (neutron)
- **measurement range** (gamma):
 - 0.01 µSv/h to 100 µSv/h (1 µrem/h to 10 mrem/h)
- **extended range** (option):
 - 0.01 µSv/h to 10 Sv/h (1 µrem/h to 1000 rem/h)

Functional features

- three modes: detection, search and identification
- multi-channel analysis with real-time spectrum acquisition
- independent Gamma/ neutron alarm indicators
- high performance identification algorithm operating on a large built-in library
- pre-loaded languages
- historical record with more than 1000 events/measurements and 30 spectrum
- easy to use
- Bluetooth®, RS-232 and USB interfaces
- audio output for earphone
- complies to ANSI 42-33, IEC 62401 standards and to IAEA recommendations

Electrical & mechanical characteristics

- power supply: 6 x AA batteries (Ni-MH rechargeable or Alkaline)
- battery Life time: > 24 hours
- 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

Versions

- HDS-100G: gamma version
- HDS-100GN: gamma and neutron version

Accessories

- shoulder strap
- USB cable
- transportation case
- HDSMASS software
- power supply/charger

130853-D

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As standards, specifications and design change from time to time, please ask for confirmation of the information given in this publication.