

UNIVERSAL DETECTION TECHNOLOGY

9595 Wilshire Blvd. Suite 700
Beverly Hills, CA 90212 USA
Phone: +1 (310) 248 3655
Fax: +1 (310) 273 2662
www.udetection.com
info@udetection.com



Nuclear characteristics

- Detectors:
 - . Gamma CsI
 - . Neutron Li6
- Energy Range:
 - . 30 Kev to 2 Mev (Gamma)
 - . 0.025 eV to 15 Mev (Neutron)
- Measurement Range:
 - . 0.01 μ Sv/h to 100 μ Sv/h
 - (1 μ rem/h to 10 mrem/h)
- Extended Range (option):
 - . 0.01 μ Sv/h to 10 Sv/h
 - (1 μ rem/h to 1000 rem/h)



HDS 100 G/GN

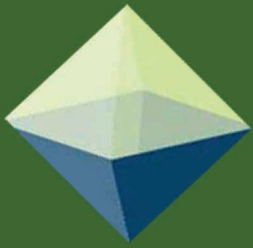
Handheld gamma neutron
search instrument

Search and identification of gamma and neutron radioactive materials

Fulfills all requirements of Homeland Security applications

- Higher sensitivity than Personal Radiation Detectors or Alarming devices
- Gamma & neutron independent channels
- Real time identification (acquisition & analysis)
- Clear discrimination between NORM, Medical, Industrial and SNM materials
- Visual and audible alarms
- Wireless communication interface
- Designed for ITRAP and ANSI standards

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 a fixed-installed monitor or by a radiation pager, to locate sources and measure radiation levels, and even to identify the detected isotope. 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.



HDS 100 G/GN

Personal Radiation Detector and Search



Functional Features:

- Three Modes: Detection, search and identification
- Multi-channel analysis with spectrum acquisition
- Independent Gamma/Neutron alarm indicators
- High performance identification algorithm operating on a built-in library
- Pre-loaded languages
- Historical record with more than 1,000 events, measurements
- Easy to use
- Bluetooth interface
- Audio output for earphone
- Complies to ANSI 42-33, IEC 62401 standards and IAEA recommendations

Electrical & Mechanical characteristics:

- Power supply: 6x AA batteries (Alkaline or Ni-MH rechargeable)
- Battery Life time: > 24 hours
- Dimensions (l x O): 280 x 78 mm / 11 x 3.4 inches
- Weight: 1,500 gr / 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 (IP65)
- CE approved

Versions:

- HDS-100G: Gamma version
- HDS-100GN: Gamma and Neutron version

Accessories:

- Removable handle
- Shoulder strap and transportation case
- RS232 and USB interfaces
- HDSMASS software