

G-SCAN^{PRO} Hand-Held Explosives & Narcotics Laser Detector

LDS 4500-G



LDS G-SCAN^{PRO} is a state of the art cutting edge laser hand-held Portable Raman Spectroscopy Detector provides law enforcement, military and security agencies a powerful sensitive, low false-positive and low false-negative tool for detecting a wide-variety of explosive substances and suspicious drugs in forms of liquid, bulk or powder. G-SCAN^{PRO} is the new generation of LDS proven 4500-G.

Easy to use and operate, the G-SCAN^{PRO} enables detection and identification, within less then 3 seconds, of a wide range of hazardous material stored in the embedded materials library.

The LDS G-SCAN^{PRO} is also a cost-effective, lightweight Bottled Liquid Scanner (BLS) that detects hazardous substances in liquids or powder forms, contained in glass and transparent or translucent plastics bottles or containers.

The LDS G-SCAN^{PRO} can also provide emergency response personnel and forensic agencies with powerful, high sensitive detection of drugs and other illegal substances. A variety of accessories available includes desktop docking station, hip carrying holster, flashlight, data transmitter and more.

G-SCAN^{PRO} Advantages and Benefits

- Detects improvised, "home-made" liquid explosives
- Real-time scanning
- Fully integrated portable Raman system
- Low False-Negative and False-Positive results
- Low fluorescence interference
- Visible LCD display
- Full automatic processing
- Easily expandable substance database
- Expanded spectral library of hazardous materials
- Ruggedized and easy to use
- Open database of substances with customer updating and expansion possibility
- Simple, easy maintenance
- Short operator training period



G-SCAN^{PRO}

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General Information

Types of Threats	Explosives & narcotics in bulk, liquid and powders form
Analysis Methods	Raman spectroscopy
Scan Time	<3 sec (background depended)
Laser Wavelength	532 nm
Spectral Resolution	6 - 8 cm ⁻¹
Raman Spectral Range	100 - 4500 cm ⁻¹
Laser power	≤ 30 mW
Analysis/ Response time	≤ 1 min
I/O Interface	USB interface/Bluetooth (optional)/Wi-fi (optional)
Operating Temperature	0°C - 45°C
Electrical Operation	Rechargeable battery ≥ 8 hr
Spectral Library	Raman spectral library (by customer demands)



G-SCAN^{PRO} Accessories



Docking Station



LCD Touch Screen



Thigh Carrier



Adapters

Physical Dimensions and Weight

Dimensions	18 cm × 33 cm × 9.5 cm (H x L x W)
Weight	<1.5 Kg

Temperature Ranges

Operating Temperature	0 - 45°C
Storage Temperature	-10° - 60°C

Relative Humidity Ranges

Operating Humidity	0 - 95%
Storage Humidity	0 - 98%

Electrical Power Source

7.6V, 6800mA, 4 Rechargeable batteries ≥ 8 hr

