

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 than 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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LDS 4500-G

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 | ≤ 1min |
| 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

