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 Hand-Held Explosives & Narcotics Laser Detector
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           | ≤ 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°C - 60°C

Relative Humidity Ranges

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

Electrical Power Source

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