



LDS

LASER DETECT SYSTEMS OF AMERICA



G-SCAN^{PRO} Hand-held Explosive, Precursors & Narcotics Laser Detector

G-SCAN^{PRO} is a hand-held Raman spectroscopy-based detector for the instantaneous detection of a wide range of hazardous materials. Used for the quick detection and analysis of explosives and narcotics at the molecular level, the G-SCAN^{PRO} enables the real-time identification of threats and their precursors.



G-SCAN^{PRO}

Key Features

Unique Identification Technology:

Raman spectroscopy based on 532nm laser source and utilizing advance algorithm analysis with fluorescence compensation

High Operational Orientation:

Ergonomic, rugged design featuring an intuitive user interface, and requiring short training

Extendable Database:

Application and user-oriented database management

Safety:

Safe to use against all threats, with no effect on the tested objects

- Fast, accurate results
- Identification of liquids, bulks & powder
- Identification through sealed, transparent and translucent containers
- Ergonomically designed especially for field users
- Stores scanning data and creates an exportable scanning report
- Long field operational time
- No warm-up time
- Minimum maintenance, no consumables
- Database customization and updating tools
- Access to an extensive substance bank
- Database adaptation to local threats
- Laser output power (< 30 mw)
- Will not ignite or burn materials
- Does not affect the substance's chemical structure

G-SCAN^{PRO} Hand-held Explosive, Precursors & Narcotics Laser Detector

LDS 4500-G



Transportation



Seaport Security



Customs



Airports Security



Mega Events



Critical Infrastructure Protection



Check Point & Borders

Technical Specification

Analysis Method	Raman spectroscopy
Laser Wavelength	532 nm - green laser
Spectral Resolution	6 - 8 cm^{-1}
Raman Spectral Range	100 - 4500 cm^{-1}
Laser Output Power	$\leq 30 \text{ mW}$
Scan Time (fast mode)	<10 seconds
Display	4.7" high-resolution touch screen
Electrical Operation	Rechargeable battery $\geq 8 \text{ hr}$
I/O Interface	USB; Wi-Fi; Ethernet
Dimensions	18 cm \times 33 cm \times 10 cm (H x L x W)
Weight	<1.85 Kg



G-SCAN^{PRO} User Interface



G-SCAN^{PRO} Accessories



Thigh Carrier



Docking Station

