

R-SCAN Remote Stand-Off Laser Scanner

LDS 6500-R



Improvised Explosive Devices are the most common threat in modern asymmetric warfare, and IED attacks are daily occurrence worldwide. Countering such threats, **R-SCAN** Remote Laser Spectroscopy Scanning technology enables remote explosives detection from standoff range, enabling the safe detection and warning of IEDs or suicide bombers from standoff range.

The **R-SCAN** explosive trace detection technology was tested successfully under day and night conditions to detect explosive materials against most common background materials such as metals, glass, cloth, wood, paint and soil, at distances of up to tens of meters.

The **R-SCAN** has been successfully tested as a standalone system and can easily be incorporated into an integrated system with existing surveillance systems or other detection means.

The **R-SCAN** provides law enforcement and military agencies with a powerful high sensitive, low false-positive and low false-negative tool for detecting a wide-variety of explosive substances in remote standoff mode of operation.

The **R-SCAN** is easily mounted on different platforms such as route clearing and patrol vehicles and robots, supporting IEDD and EOD operations, employed in stationary mode on checkpoints or scanning stations etc.

R-SCAN Advantages and Benefits

- Real-time stand-off, long range explosive detection
- Ideal solution for IED, Vehicle, Suspicious Baggage, Checkpoint security
- Allows crew to remain at safe distance from the IED.
- Day-Night operation
- Can detect a wide range of commonly known explosives
- Detects improvised, "home-made" explosives
- Detection with ~10 sec (on a 10cm x 10cm area)
- Excellent sensitivity – as low as 10µg (grain of salt).
- Low False-Negative and False-Positive results
- Able to detect chemical agents and illicit drugs



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General Information

Types of Threats	Explosives ,IED and chemical agents
Analysis Methods	Gated Raman Spectroscopy
Explosives	RDX, PETN, NG, TNT, HMX, TATP among others
Scan and Analysis Time	~10 Sec
Laser Wavelength	Green light or UV
Minimum Detection Ability	10 µg at a distance of 30 meters
Detector Type	Multi Spectral Gated ICCD Spectrometer

Physical Dimensions and Weight

Laser and Optics head	80cmx35cmx30cm	12kg
Electronics & Detector box & power supply	70cmx44cmx70cm	24kg
Control & Display Unit	27cmx17.5cm	7kg

Electrical Power Source

110/220V 10A Single Phase, or 24V battery operation from vehicle or robot

Communication

LAN ,RS 232/422 ,ETHERNET

Designed for Outdoor Operation



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