

B-SCAN High Sensitive Bottle Liquid & Powders Scanner Station

LDS 5500-B



The **B-SCAN** is a high sensitive Raman Spectroscopy desktop inspection station that offering an effective solution for inspection of liquids, solids and powdered materials, suspected as explosives, narcotics or other hazardous materials. The **B-SCAN** verifies that the inspected substances are not explosive. The **B-SCAN** is a key link for security personnel to identify a wide-range of potential threats in public locations. The portable desktop station can operate in security checkpoints at airports, transportation facilities, and large public facilities. The **B-SCAN** provides a cost-effective, interactive, high sensitive bottled liquid scanner (HSBLS) that detects hazardous substances in liquids contained in glass, transparent or translucent plastics bottles or containers. The **B-SCAN** can also provide powerful high sensitive, low false-positive and low false-negative tool for law enforcement and forensic agencies, detecting drugs and other illegal substances.

B-SCAN Advantages and Benefits

- Multipurpose Station both for explosives and narcotics
- High sensitivity detection of multiple substances detection
- Low false-negative and low false-positive alarms using the proprietary LDS MgLn™ algorithm to minimize fluorescence impact
- Fast analysis time, under 5 Sec
- Immediate system recovery after detection
- Intuitive 7" Color Touch Screen with a high quality LCD TFT user interface monitor
- Clear and fast scanning results for Pass, Fail or Potential Threat
- Large number of library references for hazardous materials
- Short operator training period
- Easy to deploy and install the station on-site
- Open database of substances with customer updating and expansion possibility
- Meet type B level 3 standard



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General Information

Types of Threats	Explosives & narcotics in liquid and powder form
Analysis Methods	Raman spectroscopy
Scan Time	< 5 sec
Liquid Volume	50 – 3000 ml
Bottle or Container shape	Any
Test cell size	40 (H) x 17(W) x 13 (D) cm
Warm-Up Time	None
Laser Wavelength	532 nm
Eye Safety	Class 3b, < 30 mW - inter locked
Raman Spectral Range	100 - 6000 ⁻¹
Spectral Resolution	5 - 8 cm ⁻¹



Physical Dimensions and Weight

Dimensions	80(W) x 57(L) x 51(H) cm
Weight	~12.5 Kg

Temperature Ranges

Operating Temperature:	0 - +45°C
Storage Temperature:	-10° - +60°C
Relative Humidity Ranges:	
Operating Humidity:	0 - 95%
Storage Humidity:	0 - 98%

Software

Operating System	Microsoft Windows 7
Processor	Dual core Intel I-5 processor, Full PC functionality
Application Software	LDS MgLn™, Proprietary Software algorithm LDS Liquids software library
Data Storage	Internal data storage Sample data saved on board data storage, data downloadable via USB interface
Display and User interface	7" color high resolution TFT Touch-screen display Touch screen keypad, Keyboard for maintenance and administrator mode Substance graphical codes
I/O interfaces	2xUSB Ethernet interface, Wi-Fi/Bluetooth (optional, external dongle)



Electrical

Voltage	110 / 220 V, 50/60Hz
Power consumption	~ 30 W
Integrated UPS	110/220V 50/60 Hz Input > 1 hour

