



General Trading Limited Liability Company

# LVBDS

## LARGE VEHICLE-BOMB DETECTION SYSTEM



In the continuing fight against terrorism, LVBDS is the answer to one of the terrorists' greatest threats — MASS DESTRUCTION.

LVBDS is an integrated system solution addressing the need for detection of large vehicle-bombs with a high vehicle throughput rate.

The LVBDS combines an automated touchless vehicle sampling system with Scintrex's patented GC / IMS chemical detection product and an intuitive icon driven integrated system user interface. Fully automated for continuous operation, user friendly and highly reliable, LVBDS can be adapted to suit site-specific architectural and threat detection requirements.

### **LVBDS is effective in a wide range of applications:**

- Government facilities
- Military installation
- transportation terminals
- Industrial sites
- Security establishments
- Religious sites
- Embassies
- Office towers
- Nuclear facilities

...**Worldwide**

For further information please visit  
[www.premnet-fzc.com](http://www.premnet-fzc.com)

Premnet Free Zone Company (UAE)  
Sharjah International Airport Free Zone  
Office Q3-119  
Sharjah, UEA  
+971 (50) 694 6139  
[info@premnet-fzc.com](mailto:info@premnet-fzc.com)

## SPECIFICATIONS \*

VEHICLE SIZE	Standard maximum dimensions: 2.20 m wide x 2.25 m high x 8 m long 7.21 ft wide x 7.37 ft high x 26.2 ft long Larger sizes available for applications with larger vehicle and/or cargo containers
THROUGHPUT TIME	Typically less than one minute (dependent on operational configuration)
EXPLOSIVES DETECTION CAPABILITY	Standard compounds: TNT, NG, AN, EGDN*, o-MNT*, p-MNT*, DMNB* Dynamite, smokeless powder & other commercially available explosives *ICAO marker compounds
ANALYTICAL UNIT SENSITIVITY	Vapours            parts per trillion Particulates      nanograms to picograms
COMPONENTS	GC / IMS chemical detection units (2) Air compressor Vacuum blowers (2) Air receivers (2) Vehicle scanning facility consisting of Tracks, vehicle guide rail set and treadle Moveable scanning arch Electrical and control panels (2) Boom assembly System integration computer, industrial grade Electronics rack
OPERATOR FEATURES	Audible and visual alarm annunciation Fully Automatic Operation Graphical interface with animation of system operation Integrated operation, scanning system, doors, optional sub-systems Fault condition alarms for all equipment
POWER REQUIREMENTS	Standard equipment 72 kVA, 3 phase, 575 VAC, 60 Hz (includes 2 kVA conditioned power) 10 kVA, 1 phase, 115 VAC, 60 Hz conditioned, UPS recommended Optional voltage/frequency powering available 400/230 VAC, 50 Hz 208/115 VAC, 60 Hz
SPACE REQUIREMENTS	Operator room, local or remote, 9 <sup>2</sup> ft(100 ft) Equipment room, 16 ft(172 ft), 3.6 m ceiling clearance adjacent to scanning area Vehicle scanning area, 5 m wide, 11.5 m long, 4.5 m ceiling clearance (16.4 ft wide, 37.7 ft long, 14.8 ft ceiling clearance)
ENVIRONMENTAL REQUIREMENTS	Operator room, typical indoor office environment Equipment room, controlled, 25°C ± 5° Vehicle scanning area, 5°C to 40°C
SYSTEM OPTIONAL COMPONENTS AND DESIGN SERVICES	Integrated vehicle tag based access control system Integrated weigh scale Architectural/system design support Vehicle containment options Blast containment options
HEALTH HAZARDS	None
ENVIRONMENTAL IMPACT	None

\*Due to continuing product improvement, these specifications are subject to change.



Premnet Free Zone Company (UAE)  
Sharjah International Airport Free Zone  
Office Q3-119  
Sharjah, UEA  
+971 (50) 694 6139  
[info@premnet-fzc.com](mailto:info@premnet-fzc.com)

For further information please visit  
[www.premnet-fzc.com](http://www.premnet-fzc.com)