

# 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**



## SPECIFICATIONS\*

<b>VEHICLE SIZE</b>	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
<b>THROUGHPUT TIME</b>	Typically less than one minute (dependent on operational configuration)
<b>EXPLOSIVES DETECTION CAPABILITY</b>	Standard compounds: TNT, NG, AN, EGDN*, o-MNT*, p-MNT*, DMNB* Dynamite, smokeless powder & other commercially available explosives *ICAO marker compounds
<b>ANALYTICAL UNIT SENSITIVITY</b>	Vapours            parts per trillion Particulates    nanograms to picograms
<b>COMPONENTS</b>	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
<b>OPERATOR FEATURES</b>	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
<b>POWER REQUIREMENTS</b>	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
<b>SPACE REQUIREMENTS</b>	Operator room, local or remote, 9 m <sup>2</sup> (100 ft <sup>2</sup> ) Equipment room, 16 m <sup>2</sup> (172 ft <sup>2</sup> ), 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)
<b>ENVIRONMENTAL REQUIREMENTS</b>	Operator room, typical indoor office environment Equipment room, controlled, 25°C ± 5° Vehicle scanning area, 5°C to 40°C
<b>SYSTEM OPTIONAL COMPONENTS AND DESIGN SERVICES</b>	Integrated vehicle tag based access control system Integrated weigh scale Architectural/system design support Vehicle containment options Blast containment options
<b>HEALTH HAZARDS</b>	None
<b>ENVIRONMENTAL IMPACT</b>	None

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