

LASERWARN

LARGE AREA CHEMICAL SECURITY

Key Features

- Real-time 24/7 Monitoring
 - ► Toxic Industrial Chemicals (TICs)
 - Chemical Warfare Agents (CWAs)
- Fixed or Portable Configurations
- Indoor or Outdoor Operation
- Low Cost Retroreflectors and Mirrors

Laser Based Chemical Detection





Key Benefits and Advantages

- Operation in the mid-infrared spectrum where most gases have strong and unique spectral signatures
- Greatly increased sensitivity and area coverage compared to current area protection systems
- Expandable library of chemical threats to match specific operational requirements
- No consumables required, allowing for minimal maintenance
- Eye-safe laser beams for operation in areas with people
- Sub-second readings for rapid detection and immediate warning alerts



Federal Buildings



Shopping Malls



Airports



Chemical Plants

Block Engineering 377 Simarano Drive Marlborough, MA 01752

LASERWARN ™ Principle of Operation



LASERWARN ™ Specifications

Maximum Distance	Standard Range: 500-m round-trip
	Extended Range: up to 3 km
Gases detected	Most Toxic Industrial Chemicals (TICs), Chemical
	Warfare Agents (CWAs) and other chemicals
Sensitivity	Varies with gas and distance in path
	(e.g., Sarin at 5 ppb over 500 m)
Response time	1 second (typical)
Detection method	Infrared Absorption Spectroscopy
Communication Options	
Communication Ontions	Ethernet; Wireless; Cellular available
Communication Options	Ethernet; Wireless; Cellular available Other options upon request
Communication Options Communication Interface	
·	Other options upon request
Communication Interface	Other options upon request Readily available interface to security systems
Communication Interface Dimensions	Other options upon request Readily available interface to security systems Approx. 36 x 22 x 15 cm [14 x 8.5 x 6 inches]
Communication Interface Dimensions Weight	Other options upon request Readily available interface to security systems Approx. 36 x 22 x 15 cm (14 x 8.5 x 6 inches) 5 kg (11 lbs)
Communication Interface Dimensions Weight Electrical Power	Other options upon request Readily available interface to security systems Approx. 36 x 22 x 15 cm [14 x 8.5 x 6 inches] 5 kg [11 lbs] 100 - 240 Volts [50/60 Hz], 20 Watts (typical)



Embassies



Sports Venues

BLOCK engineering

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