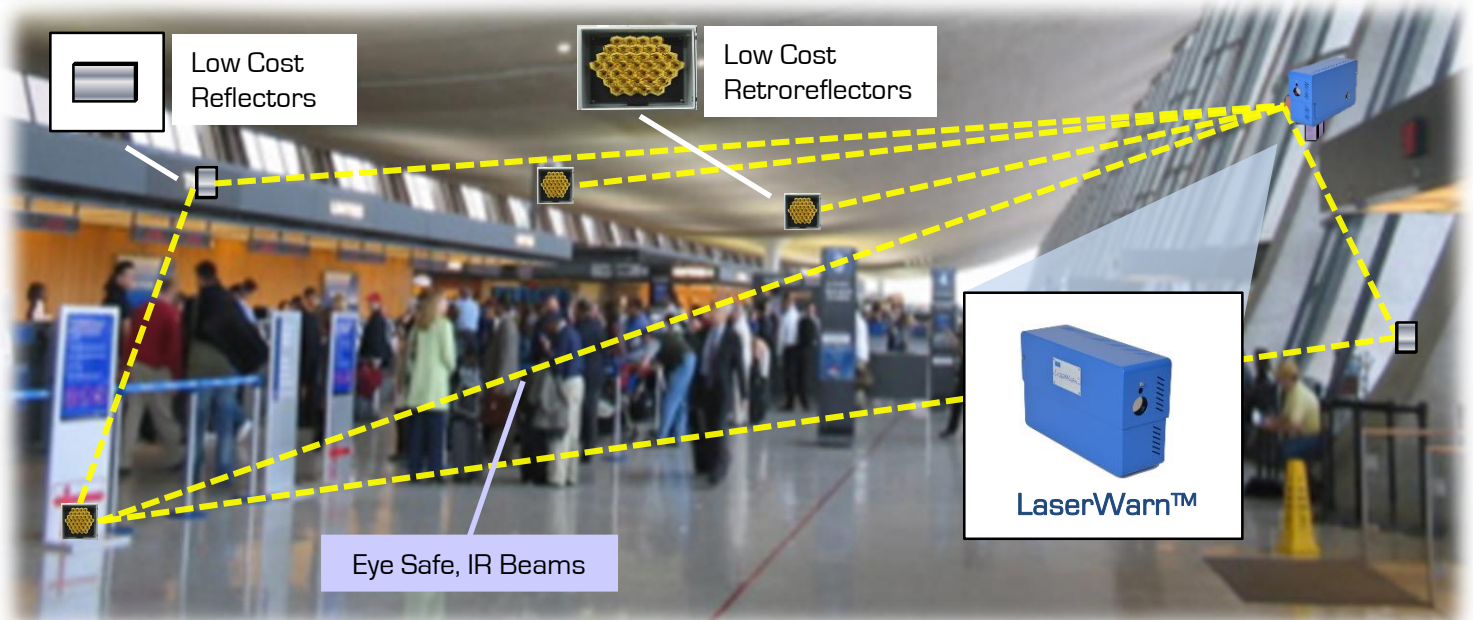


LARGE AREA CHEMICAL SECURITY

Key Features

- ▣ Real-time 24/7 Monitoring
 - ▶ Toxic Industrial Chemicals (TICs)
 - ▶ Chemical Warfare Agents (CWAs)
- ▣ Fixed or Portable Configurations
- ▣ Indoor Operation (Outdoor Enclosure Available)
- ▣ 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
- ▣ Readings every two seconds for rapid detection and warning alerts



Federal Buildings



Shopping Malls



Airports



Chemical Plants



Embassies




Sports Venues

LASERWARN™ Principle of Operation

LASERWARN™



No Chemical Detected




Chemical Cloud Detected




LASERWARN™ Specifications

Maximum Distance	Standard Range: 500-m round-trip
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 10 ppb over 500 m)
Response time	2 seconds (typical)
Detection method	Infrared Absorption Spectroscopy
Communication Options	Ethernet; Wireless Cellular and other options available upon request
Communication Interface	Readily available interface to security systems
Dimensions	Approx. 36 x 22 x 15 cm (14 x 8.5 x 6 inches)
Weight	5 kg (11 lbs)
Electrical Power	100 - 240 Volts (50/60 Hz), 20 Watts (typical)
Operating Temperature Range	10° to 30°C
Range	(-20° to 50°C available with custom enclosures)
Retro-reflector	2-inch diameter (included)

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