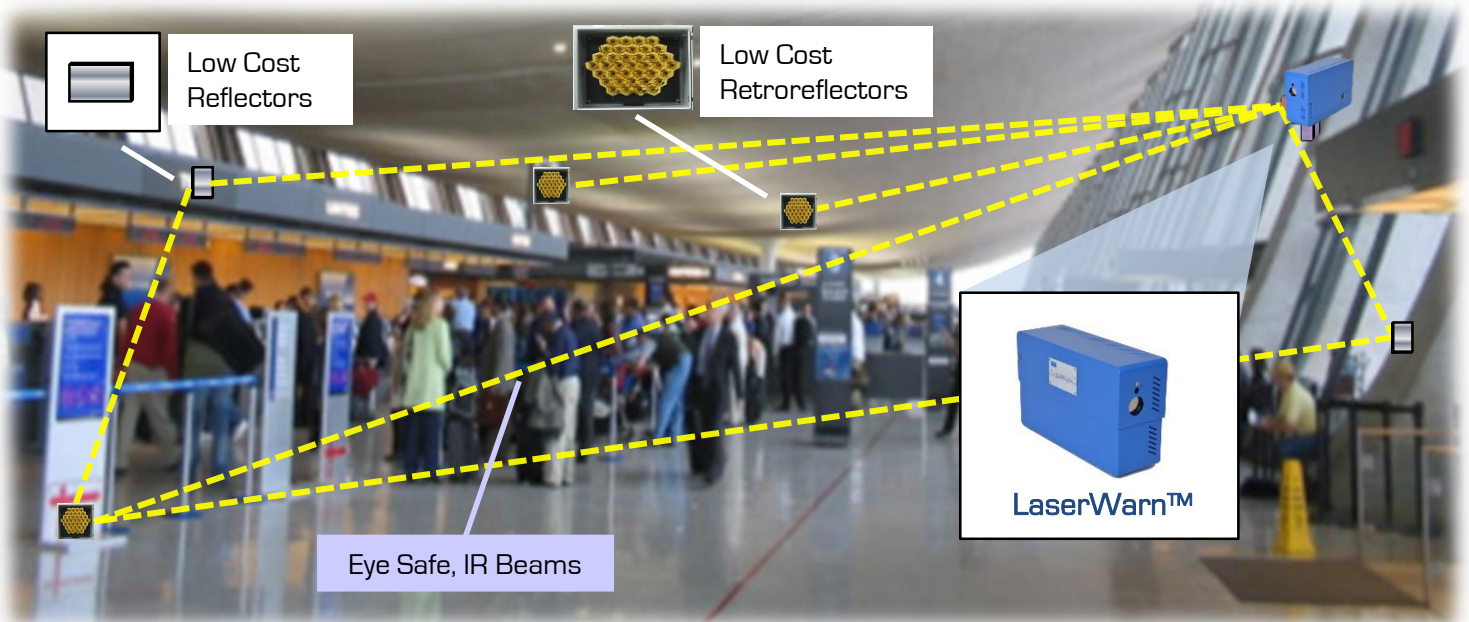


## LARGE AREA CHEMICAL SECURITY

### 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



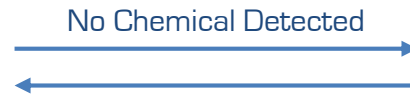
Embassies



Sports Venues

## LASERWARN™ Principle of Operation

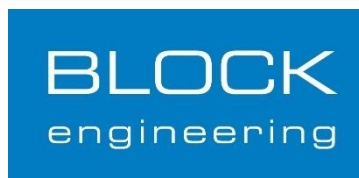
LASERWARN™



## 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 5 ppb over 500 m)
Response time	1 second (typical)
Detection method	Infrared Absorption Spectroscopy
Communication Options	Ethernet; Wireless; Cellular available Other options 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)
Temperature Range	-30 to 70 °C (custom enclosures may be required)
Retro-reflector	2-inch diameter (included)

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