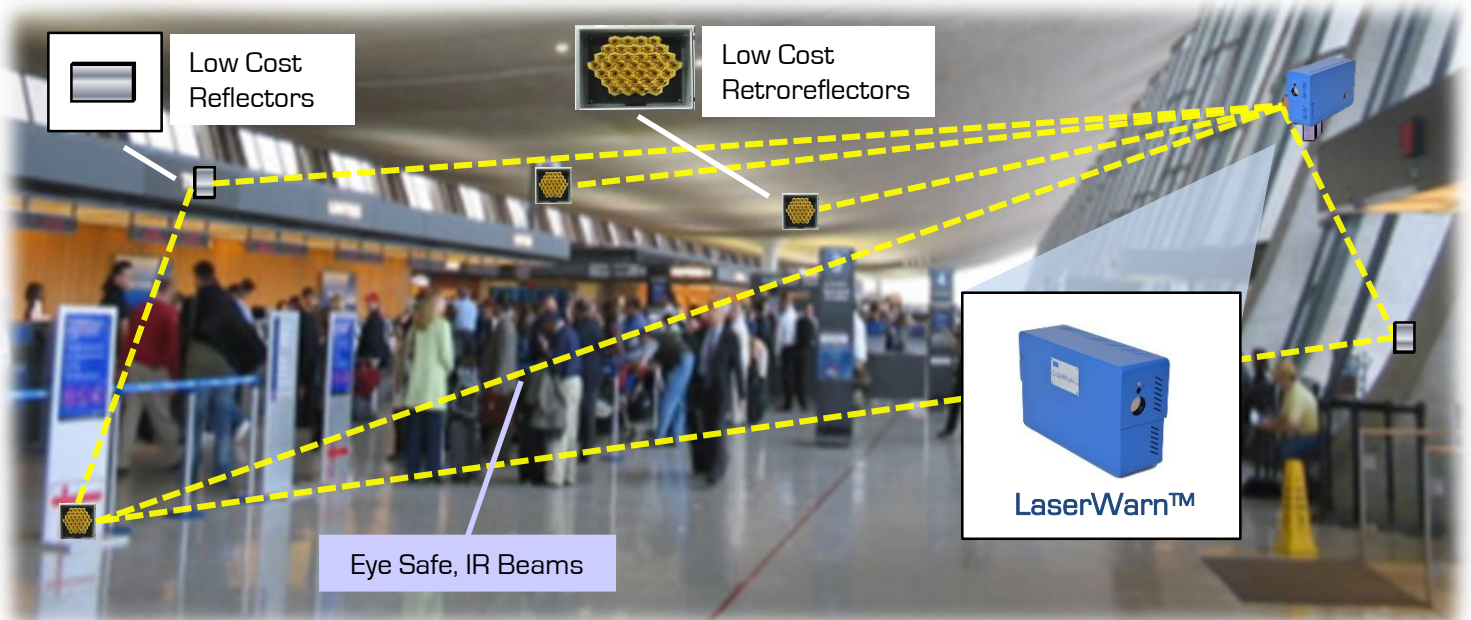


## LARGE AREA CHEMICAL SECURITY

### 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

<b>Maximum Distance</b>	Standard Range: 500-m round-trip
<b>Gases detected</b>	Most Toxic Industrial Chemicals (TICs), Chemical Warfare Agents (CWAs) and other chemicals
<b>Sensitivity</b>	Varies with gas and distance in path (e.g., Sarin at 10 ppb over 500 m)
<b>Response time</b>	2 seconds (typical)
<b>Detection method</b>	Infrared Absorption Spectroscopy
<b>Communication Options</b>	Ethernet; Wireless Cellular and other options available upon request
<b>Communication Interface</b>	Readily available interface to security systems
<b>Dimensions</b>	Approx. 36 x 22 x 15 cm (14 x 8.5 x 6 inches)
<b>Weight</b>	5 kg (11 lbs)
<b>Electrical Power</b>	100 - 240 Volts (50/60 Hz), 20 Watts (typical)
<b>Operating Temperature Range</b>	10° to 30°C
<b>Range</b>	(-20° to 50°C available with custom enclosures)
<b>Retro-reflector</b>	2-inch diameter (included)

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