

# CHEMSIGHT™

## Instant Open Path Gas Identification

### FEATURES

- Continuous operation, open path infrared detector
- Rapidly detects and identifies chemical and concentration levels
- Line of site path up to 100 meters
- No regular maintenance
- Expandable database of chemical signatures
- SiteProtector™ software integrates into standard wired or wireless network systems

### INSTALLATIONS

- Subway and Train Stations
- Chemical Plants/Storage Facilities
- Government Buildings
- Large Lobbies
- Airport Terminals
- Sporting Events
- Stadiums
- Theaters and Arenas
- Schools and Colleges
- Special Events

The ChemSight™ detector can identify minute quantities of hazardous gaseous chemicals over a wide coverage area, has minimal operating costs and is designated as a Qualified Anti-Terrorism Technology. The ChemSight™ Chemical detector from Avir Sensors, puts unprecedented detection and identification capability into the hands of safety officers by delivering comprehensive information about chemical threats in a matter of seconds.



**THE CHEMSIGHT™ DETECTOR SYSTEM**  
The ChemSight™ detector is a continuously operating, open path detector that uses infrared spectroscopy. It can reliably monitor lines of sight of up to 100 meters and detect and identify multiple chemicals and interferants. The ChemSight™ detector is particularly suitable to monitor large facilities, indoor or outdoors, that face constantly varying challenges by multiple threats. It is robust, easy to install and operate — even by untrained personnel.

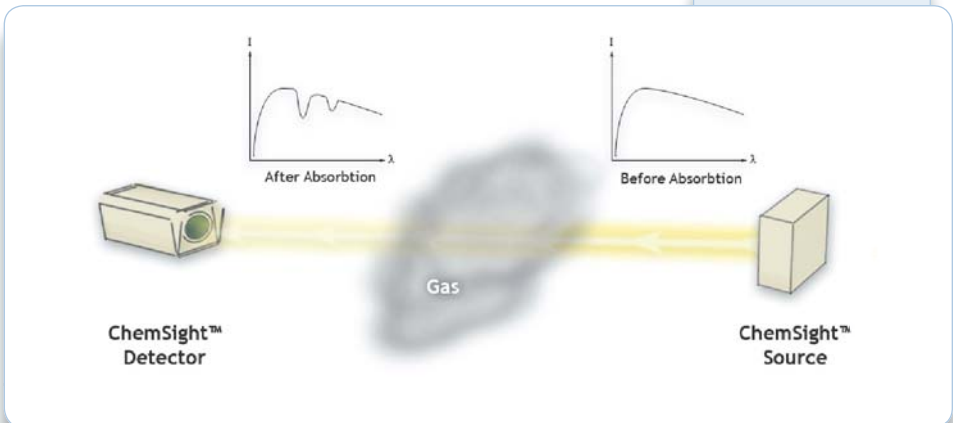
**RELIABLE, LOW MAINTENANCE SYSTEM**  
Its exceptionally low-maintenance schedule and no-consumables make it the only “install-and-forget” detector in the field. Unlike point detectors that can provide only localized snapshot views of the protected area, the ChemSight™ detector offers a global view and fast response to nearly all chemical challenges and interferants.

**SECURITY AND INDUSTRIAL SAFETY APPLICATIONS**  
Select the ChemSight™ detector with confidence because it detects and identifies a wide range of TICs (toxic industrial chemicals) and interferants. Identify high and low concentrations without risking poisoning its detector elements. New signatures can be uploaded into ChemSight™ detector through standard wired and wireless networks. SiteProtector™ software readily integrates with industry standard security network systems or can act as its own autonomous detector system.



*The ChemSight™ detector is a Qualified Anti-Terrorism Technology and has received SAFETY Act designation.*

ChemSight Detection



# CHEMSIGHT™

## SYSTEM

<b>Sensor Type:</b>	Infrared absorption
<b>Sensitivity:</b>	Varies by vapor; from 200 ppm•m to 2 ppm•m (well below IDLH in typical installations)
<b>Response Time:</b>	1 second
<b>Identification Time:</b>	1-30 seconds
<b>Ongoing Calibration:</b>	None
<b>Warranty:</b>	Two years
<b>Consumables:</b>	None
<b>Maintenance:</b>	Self-monitors to determine maintenance, if any
<b>Operation:</b>	Continuous

## MECHANICAL

<b>Housing Size:</b>	
<b>Detector:</b>	7" x 7.5" x 22.5" (17cm x 19cm x 57cm)
<b>IR Lamp:</b>	14" x 14" x 8" (35cm x 35cm x 20cm), 7" x 7" x 6" (17cm x 17cm x 15cm)
<b>Enclosure Material:</b>	Aluminum
<b>Weight:</b>	
<b>Detector:</b>	8 lbs (4 Kg)
<b>IR Lamp:</b>	5 lbs (3 Kg)

## ENVIRONMENTAL

<b>Operating Temp.:</b>	-40°F to +140°F (-40°C to +60°C)
<b>Operating Humidity:</b>	0 to 95% RH (Non-condensing)
<b>Weatherproof rating:</b>	IP66
<b>Certifications:</b>	ISO 9001, UL & CE (pending)

## ELECTRICAL

<b>Operating Voltage:</b>	120/240VAC
<b>Power Consumption:</b>	
<b>Detector:</b>	25 watts
<b>IR Lamp:</b>	5 watts to 80 watts

## CHEMICALS DETECTED

<b>Types:</b>	Wide range of toxic industrial chemicals and toxic industrial materials while providing strong interferent rejection.
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## SOFTWARE

<b>General:</b>	SiteProtector™ software provides gas identification, concentration, time stamp and other data for inclusion into industry standard integration software.
<b>Diagnosis:</b>	Self-diagnosing for path obstructions, contaminants along IR path, detector status
<b>Confidence Tester:</b>	Internal, software activated relay that confirms detector operation and communication at user defined intervals (daily, weekly, etc.)

## INDUSTRIAL ENVIRONMENTS

The ChemSight™ detector recognizes virtually any Toxic Industrial Chemical (TIC) or Toxic Industrial Material (TIM) that are a dangerous reality in every industrial environment.



From petrochemical plants, with their wide range of possible threats to many food processors using refrigeration processes that can leak ammonia and carbon dioxide, the ChemSight™ detector offers comprehensive protection not available anywhere else in today's market.

## HOMELAND SECURITY

Subway platforms, stadiums, military installations, schools, airports, HVAC systems, perimeters - these are examples of where ChemSight™ can be used to monitor chemical threats. The detector offers accurate and reliable detection and delivers virtually instantaneous results.

Instead of asking safety officials to place bets on what might happen, the ChemSight™ detector can tell you what is happening so you can determine what to do — in a time frame that can save lives. Its long life, low maintenance, large coverage area and field updateable chemical signatures provide robust return on investment protection.