

# CHEMSIGHT™

## Instant Open Path Gas Identification

### FEATURES

- Continuous operation, open path infrared detector
- Rapidly detects and identifies multiple chemicals and concentration levels
- Line of sight 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
- Sporting Events
- Environmental Monitoring
- Airport Terminals
- HAZMAT Response
- Waste Site Remediation
- Military
- Special Events
- Industrial Safety

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 chemical threats. 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.

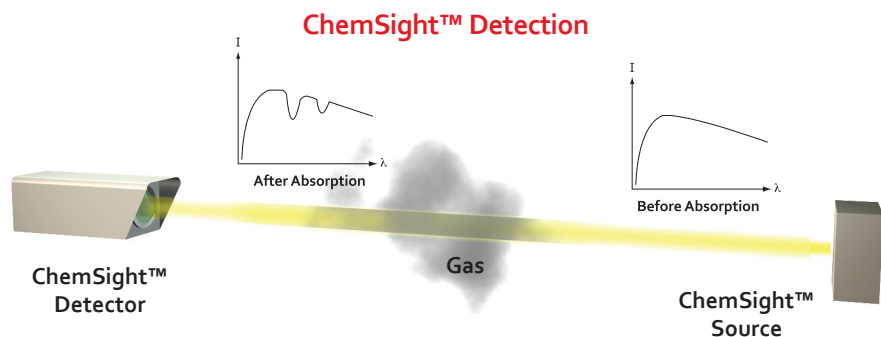


### RELIABLE, LOW MAINTENANCE SYSTEM

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 of chemicals of interest and a fast response to nearly all chemical challenges.

### SECURITY AND INDUSTRIAL SAFETY APPLICATIONS

Select the ChemSight™ detector with confidence because it detects and identifies Chemical Warfare Agents (CWAs) and a wide range of Toxic Industrial Chemicals (TICs) and Toxic Industrial Materials (TIMs). 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™

## CHEMICALS DETECTED

**Types:** Wide range of Chemical Warfare Agents (CWAs), Toxic Industrial Chemicals (TICs) and Toxic Industrial Materials (TIMs)

## SOFTWARE

**General:** SiteProtector™ software provides threat evaluation, gas identification, concentration, time stamp and other data for stand alone monitoring or inclusion into industry standard integration software

**Diagnosis:** Self-diagnosing for path obstructions and detector well-being

**Confidence Tester:** Internal, software activated relay that confirms detector operation and communication at user defined intervals (daily, weekly, etc.)

## SYSTEM

**Sensor Type:** Infrared absorption

**Sensitivity:** Varies by vapor; from 200 ppm•m to 2 ppm•m (well below IDLH in typical installations)

**Response Time:** 1-3 seconds

**Identification Time:** 1-30 seconds

**Path Length:** 1-30m; 30m-100m

**Ongoing Calibration:** None

**Warranty:** One year

**Consumables:** None

**Maintenance:** Self-monitors to determine maintenance, if any

**Operation:** Continuous

## MECHANICAL

**Housing Size:**

**Detector:** 7" x 7.5" x 22.5" (17cm x 19cm x 57cm)

**IR Lamp:** 14" x 14" x 8" (35cm x 35cm x 20cm), 7" x 7" x 6" (17cm x 17cm x 15cm)

**Enclosure Material:** Powder coated aluminum

**Weight:**

**Detector:** 13 lbs (6 Kg)

**IR Lamp:** 8 lbs (4 Kg) , 4 lbs (2 Kg)

## ENVIRONMENTAL

**Operating Temp.:** -40°F to +140°F (-40°C to +60°C)

**Operating Humidity:** 0 to 95% RH (Non-condensing)

**Weatherproof rating:** IP66

**Certifications:** ISO 9001, UL & CE (pending)

## ELECTRICAL

**Operating Voltage:** 120 VAC or 240 VAC

**Power Consumption:**

**Detector:** 25 watts max.

**IR Lamp:** 5 watts to 50 watts max.

## INDUSTRIAL ENVIRONMENTS

The ChemSight™ detector recognizes most Toxic Industrial Chemicals (TICs) or Toxic Industrial Materials (TIMs) that are a dangerous reality in every industrial environment.

From oil refineries to chemical facilities, from semi-conductor plants to pharmaceutical sites and their wide range of possible threats, 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 from Toxic Industrial Chemicals (TICs), Toxic Industrial Materials (TIMs) or Chemical Warfare Agents (CWAs). 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.



1180 Seminole Trail, Suite 495  
 Charlottesville, Virginia 22901 USA  
 (Telephone) 434.973.1450  
 (Fax) 434.872.0722

[www.avirsensors.com](http://www.avirsensors.com)

*Specification subject to change without prior notification*

