Smiths Detection - Watford Limited - CAM (Chemical Agent Monitor)



GENERAL DESCRIPTION:

CAM is a highly effective and easy to use CWA and TIC monitor. The auto switching feature gives CAM the added capability to continuously and automatically scan between Positive (nerve agent) and Negative (blister, blood and choking agent) modes. In applications where the threat of chemical agent is



anticipated, CAM is used to monitor and confirm the type of agent used, as well as the concentration of the contamination. The unit can also be used post attached to monitor personnel, vehicles, equipment and terrain to assess the extent of cross contamination. Whether used in the military or civil environment CAM's ergonomic design and ease of use make it ideal for monitoring the effectiveness of decontamination measures. CAM can be used for Reconnaissance and search, confirmation monitoring, survey and sentry monitoring operations.

TECHNICAL DESCRIPTION:

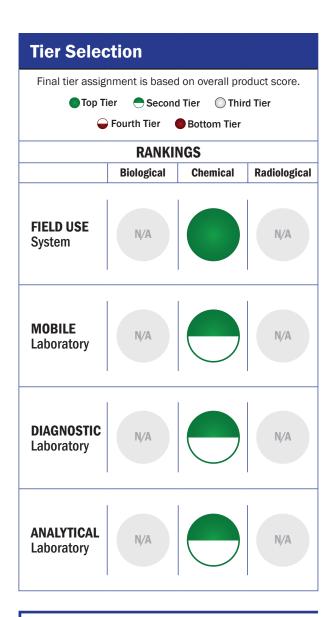
CAM uses Ion Mobility Spectroscopy (IMS) and analysis software to match sample spectral results to stored libraries to classify, identify and quantify chemical warfare agents (CWAs) and toxic industrial chemicals (TICs).

CONTACT INFORMATION

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COST

- N/A/system
- \$0.48/analysis

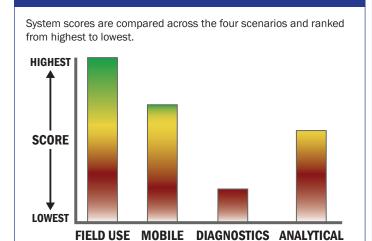


Notes

In wide spread use worldwide.

Survey Source

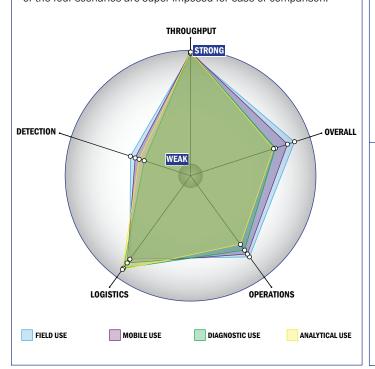
Vendor Supplied Information



Impact Chart

Scoring Analysis

The Impact Chart is a spider graph representing specific categories and designed to give the reader a visual depiction of how a particular system is expected to operate across the four different scenarios. The score for each of the seven categories is presented as the percentage of the total possible score. Higher category scores extend the spokes of a graphic toward the outer edge of the chart. The area graphed for each of the four scenarios relates to how well the system performed in that scenario. Graphics for each of the four scenarios are super-imposed for ease of comparison.



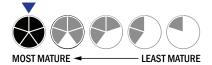
Evaluation Criteria

Throughput:

- Detection is instantaneous
- Continuous operation with no defined runs
- System is continuous and provides real time analysis with no defined tests/samples
- The system or device is currently fully automated
- Device or system is intended for multiple detection assays
- 0-1 solutions, buffer, eluents, and/or reagents
- 0 components
- Less than 5 minutes is required for set-up
- Automatic detection

Logistics:

- Very brief (minutes-hours) training and minimal technical skills
- Approximately the size of a toaster
- Between 1 and 5 kg
- Wired connections are available
- · System or device uses batteries
- 4-8 hours battery life



Operations:

- Can be used from < -21°C to > 42°C (All temperatures)
- Performance is not influenced by relative humidity
- Greater than 10 years expected life
- Results cannot be viewed in real-time
- The system could easily be adapted into a fully autonomous system
- The system software is closed and not available for modification
- The system hardware is closed and not available for modification

Detection:

- This system does not test liquids
- Excellent specificity. System has occasional false alarms under certain conditions (<2%)
- >1x10 $^{-3}$ mg/m 3
- System can currently identify aerosolized chemical agent