

FLIR Systems, Inc. - Agentase Disclosure Spray for Blister Agents



GENERAL DESCRIPTION:

Colorimetric Enzyme-Based Spray that detects chemical agents directly on surfaces via a visible color change within 5 minutes. The formulation detects Sulfur Mustard Blister Agent (HD) with microgram sensitivity. The Blister Agent Disclosure Spray is sold in three form factors: a half-liter handheld sprayer capable of covering 5-7 square meters of surface; a man-portable sprayer, the Viper Discovery applicator, which contains approximately 2 gallons of the formulation and covers 75 – 120 square meters of surface area; and the Merlin Discovery cart-based sprayer, which holds 14 gallons and is capable of covering 500-700 square meters.



TECHNICAL DESCRIPTION:

Colorimetric Enzyme-Based Spray that detects chemical agents directly on surfaces via a visible color change within 5 minutes.

CONTACT INFORMATION

FLIR Systems, Inc.
 CBRNE Detection
 2240 William Pitt Way
 Pittsburgh, PA 15238
 412-423-2100
 www.flir.com

COST

N/A

Tier Selection

Final tier assignment is based on overall product score.

- Top Tier ◐ Second Tier ○ Third Tier
- ◑ Fourth Tier ● Bottom Tier

RANKINGS

	Biological	Chemical	Radiological
FIELD USE System	N/A		N/A
MOBILE Laboratory	N/A		N/A
DIAGNOSTIC Laboratory	N/A		N/A
ANALYTICAL Laboratory	N/A		N/A

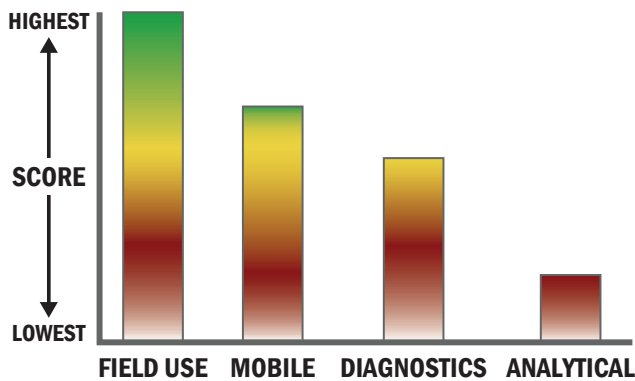
Survey Source

Vendor Supplied Information



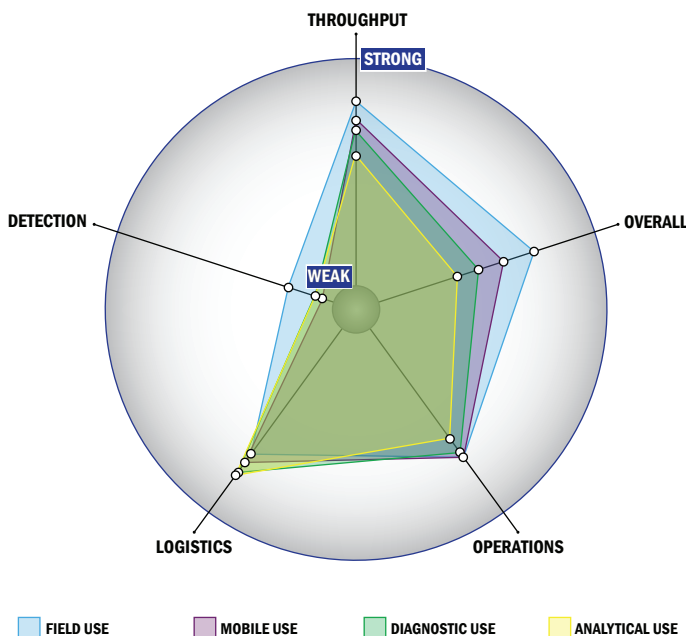
Scoring Analysis

System scores are compared across the four scenarios and ranked from highest to lowest.



Impact Chart

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.



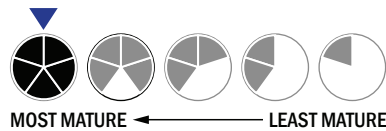
Evaluation Criteria

Throughput:

- Between 2 and 15 minutes for detection
- Multiple samples, multiple tests/sample per run
- 349-96 samples every 2 hours
- The system could be adapted to a semi-automated system with some effort
- Device or system is designed for a single use
- 2 solutions, buffer, eluents, and/or reagents
- 0 components
- Less than 5 minutes is required for setup
- 1-2 steps are required for detection

Logistics:

- An afternoon of training and some technical skills required
- Approximately the size of a toaster
- Between 1 and 5 kg
- This system is not capable of transmitting data
- There is no electrical requirement



Operations:

- Can be used from -21°C to 42°C (All temperatures)
- Components must be stored at room temperature (27°C)
- Performance is not influenced by relative humidity
- Between 1 to 3 years shelf life
- Results can be viewed in real-time
- The system is not capable of autonomy
- The system does not employ any software

Detection:

- Possible the system could receive 510K clearance, no current efforts at this time
- Possible the system could receive FDA approval, no current efforts at this time
- This system does not test liquids
- Excellent specificity. System has occasional false alarms under certain conditions ($<2\%$)