

FLIR Systems, Inc. - MailPoint



GENERAL DESCRIPTION:

MailPoint is a mail inspection workstation for biological threat screening of letters and parcels. Designed around a down-draft table, MailPoint pulls air inward and downward, away from the operator's breathing zone through perforated table grates and finally through a high-performance filtration system. MailPoint provides tiered detection and sampling of biological hazards. The collected sample may be used with a presumptive identifier, sold separately, for analysis. The MailPoint system is a containment hood that can be used to safely handle mail or other items that are suspected of containing a biological threat.



TECHNICAL DESCRIPTION:

The system contains FLIR AirSentinel® and BioXC® systems. The BioXC continuously collects some of the particles that are flowing through the MailPoint system. When the AirSentinel OPC detects a potential threat it will alert the user to dispense the fluid sample collected by the BioXC. The sample fluid can then be analyzed by a separate identifier to determine if the particulate is a true biological threat and, if so, the character of the threat.

CONTACT INFORMATION

FLIR Systems, Inc.
27700 SW Parkway Ave.
Wilsonville, OR 97070

COST

- \$44,000/system
- ~\$35/analysis

Tier Selection

Final tier assignment is based on overall product score.

- Top Tier ● Second Tier ● Third Tier
● Fourth Tier ● Bottom Tier

RANKINGS

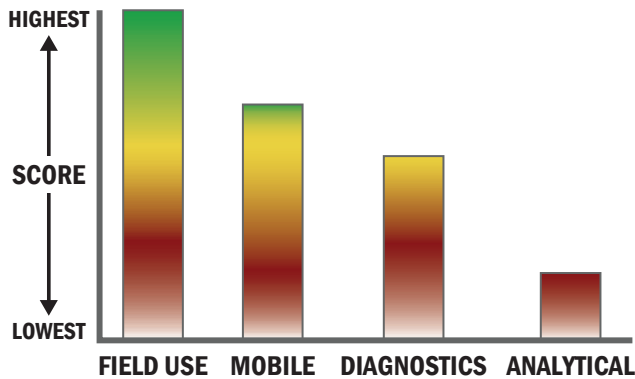
	Biological	Chemical	Radiological
FIELD USE System	●	N/A	N/A
MOBILE Laboratory	●	N/A	N/A
DIAGNOSTIC Laboratory	●	N/A	N/A
ANALYTICAL Laboratory	●	N/A	N/A

Survey Source

Vendor Supplied Information

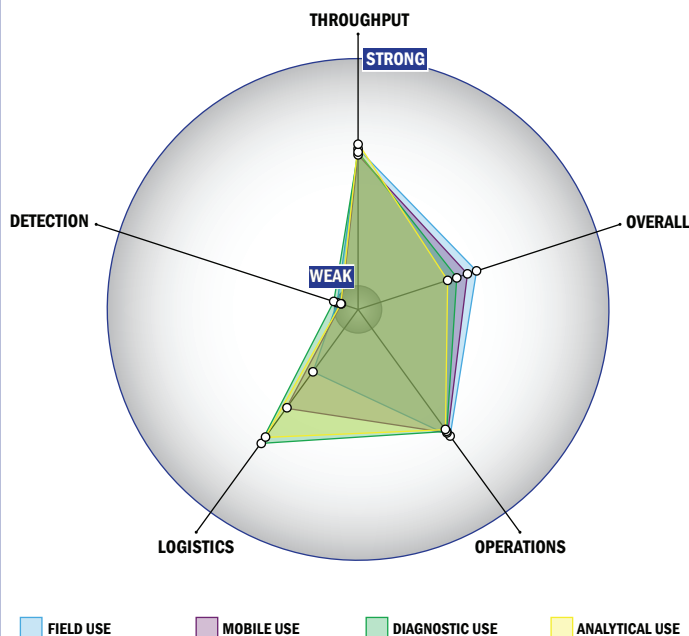
Scoring Analysis

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.



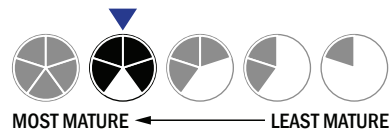
Evaluation Criteria

Throughput:

- 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 semi-automated
- Device or system is intended for multiple detection assays
- 0-1 solutions, buffer, eluents, and/or reagents
- 2 components
- 5-10 minutes is required for set-up
- 3-5 steps are required for detection

Logistics:

- An afternoon of training and some technical skills required
- Larger than a home dishwasher
- More than 50 kg
- Wired connections are available
- System or device has 110V electrical requirement



Operations:

- Components must be stored at room temperature (27 °C)
- Performance is not influenced by relative humidity
- Between 1 to 3 years shelf life
- Greater than 10 years expected life
- Results can be viewed in real-time
- The system is not capable of autonomy
- The system software is closed and not available for modification
- The system hardware is closed and not available for modification

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