

Product Datasheet

MX908

Rugged Mass Spec for Trace Detection and Identification of CWAs and TICs

MX908™ leverages high-pressure mass spectrometry™ (HPMS) to deliver dramatically enhanced sensitivity for identification of chemical warfare agents (CWAs), toxic industrial chemicals (TICs) and more. In addition to traditional agents and threat materials, MX908 is a field-deployable tool that can identify A-series CWAs, also known as fourth generation agents (FGAs) or Novichoks, at trace levels.

As the threat landscape continues to evolve, responders must adapt to ensure they are equipped to address threats as they arise. Whether identifying military grade warfare agent, mitigating an active incident, or validating decontamination, responders need the selectivity to distinguish between threats and the sensitivity for high fidelity trace detection. With MX908, elite federal, military and civilian responders have the quick, confident intelligence they need to ensure the safety of their team and the public.

Missions

- Site exploitation.
- Border security.
- HazMat response.
- Checkpoint security.
- Postal security.
- Event security.

Threat categories

- CWAs (including Novichoks).
- Fentanyl/Opioids.
- Emerging threats.
- Explosives.
- TIC/TIM.
- Precursors.

Sampling modes

- Trace-level vapours, solids and liquids.

Operational strengths

- Fast start up.
- Rapid analysis.
- Trace detection (low - mid ppb).
- Powered by mass spectrometry.
- Heightened sensitivity and selectivity.
- Unmistakable audio and visual alerts.
- Simple interface.
- Low maintenance.



MX908 is equipped with modular accessories for ease of transition between solid and vapour sample types.



MX908 Mission Modes use specialised software configurations to optimise performance for specific mission objectives.

CW Hunter – is a mission mode for the detection of priority chemical warfare agents, including A-series (Novichoks). Delivers real-time vapour quantification.

Drug Hunter – is a mission mode for the detection of drugs such as: fentanyl and fentanyl-analogues, along with other high priority drugs-of-abuse.



Explosives Hunter – is a mission mode for the detection of priority threats from military and commercial grade explosives, to homemade energetics and relevant precursors.



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EXPERIENCE & EXPERTISE

Specifications

General	
Size	29.8 x 21.6 x 12.2 cm
Power	Replaceable, hot swappable batteries with >3 hours of continuous operation (2 spare batteries included)
Display	Adjustable ultra-bright backlit display for direct sunlight and nighttime conditions, 12.7 cm
Weight	≤ 4.3 kg; varies based on module, accessories
Ionisation Source	Non-radioactive, internal ionisation, variable energy, dual polarity
Sample Introduction	Continuous gas/vapour analysis; rapid trace-to-bulk solid/liquid analysis via thermal desorption swabs
Alarm Type	Audio and visual for both detection and identification
Software	Embedded, self-contained, on-board analytics
Decontamination	P-54 rated, chemical resistant housing, spray/splash and wipe down
Operating Temperature	0° - 40° C
Storage Temperature	-20° - 60° C
Ruggedness	MIL-STD-810G

Specifications are subject to change without notice.
For the most up-to-date specifications, please visit www.flir.com

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