

SAFR

Situational Awareness For First Responders

YOU'RE SAFER WITH SAFR

- 5+ Meter Standoff in one hand
- Works in direct sunlight
- Autofocusing



Capabilities & Benefits

- Stand-off Detection: Get farther away from toxic chemicals or blast.
- Speed: Detect faster, farther & safer.
- Eye-safe: Can't blind; no eye protection required.
- Exploitation: Classification and real time specific identification; fastest survey and assessment.
- Counter-explosives C-IED/Force Protection: Military, commercial, and homemade explosives (HME).
- Counter-Weapons Of Mass Destruction/CBRNE: nuclear weapon processing, disablement, counter-proliferation.
- Can be integrated with UGVs and UAVs
- Detection: Solid, liquid, and some gas phase detection.



Lightweight for integration onto Robotic Platforms

ALAKAI
Defense Systems



Specifications

PHYSICAL

Size	16" x 6" x 4.5" (not including the handle)
Weight	5.8 lbs. without battery (3.5 lbs. lightweight UAV option), 6.8 lbs. with optional battery & handle

OPERATIONAL

Battery Runtime	2 hrs.
Storage Temperature	-33C - +60°C (-27F - 140°F)
Operating Temperature	0 - 40°C (32 - 104°F)
IP Rating	IP 65

RAMAN SPECIFICATIONS

Detection Range (material dependent)	0.5-5m (HME's out to >7m)
Detection Time	Programmable, 3-30 secs.
Laser Wavelength	Deep Ultra-Violet (UV)
Spectrometer Resolution	~16cm ⁻¹

MISCELLANEOUS

Imaging Capability	Onboard camera saves image with each data file - Evidence
Alarms	Red/Green LED's & Android® display
Startup time	<4 min
Data Storage	>100GB

DETECTION LIBRARY

Chemicals	Detects Explosives, Home Made Explosives (HME), Nuclear Weapon Processing Chemicals, Narcotics, TICs/TIMs, Hazardous Materials (HAZMAT)
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OPTIONAL INTERFACE

Android phone	Displays additional classification and identification information and allows system configuration
Communications	Wired or Wireless Ethernet