One Instrument To Detect Them All

Being first on the scene means dealing with unknowns. Other existing real time detectors are incapable of identifying biowarfare agents. Only the STANDOFF 200 is capable of detecting trace chemical, explosives and biowarfare agents on surfaces, in real time, with no reagents or consumables.

Standoff Safety

Most sensors require touching or handling unknown hazardous materials. For greater safety, the STANDOFF 200 standoff detection capabilities enable detection at up to 5 meter standoff distances, even in bright sunlight. Now, you can safely identify a substance on a surface without getting near it.

Two Orthogonal Detection Techniques

Many detectors suffer from poor sensitivity and/or incorrect identification due to the use of only one detection technique. The STANDOFF 200 is the only standoff handheld detector to utilize both deep UV Raman and fluorescence. This enables unsurpassed sensitivity and specificity for detecting a wide range of chemicals, explosives and biological agents. NASA/JPL is using this same technology on Mars to detect organic compounds with SHERLOC detector on the Mars 2020 probe.
**STANDOFF 200** Analyzer

Integrated Deep UV Raman and Fluorescence Analyzer for Standoff Detection of Chem, Bio, & Explosives

### Features

- **Single handed operation:** 4-button plus trigger control
- **Warm-up:** < 10s from cold start, 3 s from standby mode
- **Built-in-test:** full functional test of all components on startup
- **Spectral Calibration:** Auto-calibrated on analyzer startup
- **Two Coaxial Context Cameras:** 75° wide angle image, 20mm micro image around laser spot
- **Autofocused Standoff:** 0.6 m to 5+ m
- **Materials Detected:** Chemical, Biological and Explosives
- **CBE Libraries:** Built in unclassified library +SD card libraries
- **Standoff Distance:** 0.5 m to 5+ m in full daylight conditions
- **Spectral Range:**
  - Raman: 250 cm\(^{-1}\) to 4000 cm\(^{-1}\)
  - Fluorescence: 270nm to 320nm
- **Context Info with Spectral Data:** Date/time stamps, GPS, azimuth, distance and two contextual photos
- **Power Supply:** User replaceable 24 V LiPO battery pack (UN/DOT 38.3 rated) or 24 V wall adapter
- **Communication:** WiFi/Bluetooth (to Android/ATAK/MFK), plus Wired USB 3.0
- **Weight:** <12 pounds
- **Dimensions:** 7” W x 11” H x 16” L
- **Battery Lifetime:** >20 hrs in standby, >300 full data sets
- **Display:** Color 1920x1080, 5.9” LCD
- **Ambient:** -40 °C to +60 °C, 0-90% humidity, -1 km to +20 km
- **Shock/Vib:** TBD
- **Ingress Protection:** IP67
- **Robot compatible:** ¼ -20 camera thread or dove-tail mount
- **Maintenance:** > 1 year with window clear of debris