

Fido® Verdict™

HAZARDOUS MATERIALS IDENTIFICATION

Fido® Verdict™ is a small, lightweight and ruggedized instrument for rapidly identifying hazardous liquids, solids and powdered materials. Through cost effective field-based identification, Verdict allows HazMat specialists, law enforcement and military personnel to do field-based analysis and evidence prioritization.

Building on the Fido pedigree of highly reliable detection systems, Verdict uses well-established Raman spectroscopy to directly identify hazardous materials. This approach minimizes exposure to potentially dangerous chemicals. During interrogation, a spectrum is captured and compared against a focused, application-specific library to identify the primary components of the suspect sample. The simple three-button interface allows users to easily present a sample for interrogation and analysis.

Verdict uses advanced algorithms for precise chemical mixture analysis, providing users with information on the components and hazard level of the sampled material. Depending on the situation, users can select specific libraries to enable faster response times or compare samples to the entire database. Libraries include priority chemicals as listed by the EPA as well as the explosives, liquid threats and narcotics commonly listed by the ATF and DEA. Additionally, Verdict provides identification and threat characterization for uncommon chemicals.

Fido Verdict provides fast, reliable identification in a simple to use, intuitive handheld device. Whether it's used to screen the contents of containers, bags and bottles at checkpoints or in the field for direct sampling of suspect materials, Verdict provides HazMat professionals, military personnel and security agents with an effective tool to help make their job easier.



BENEFITS

- Accurate identification through closed containers
- Minimizes exposure to potentially dangerous chemicals
- Low false alarm rate
- Minimal training burden
- Confirmation of material contents

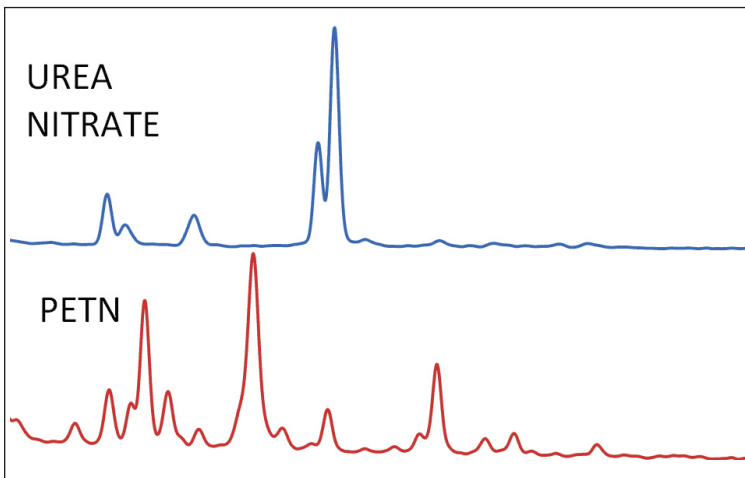
INCLUDED LIBRARIES

- Explosives (both liquid and solid)
- White powders
- Narcotics
- Chemical weapons agents
- Common chemicals

OPERATION & MAINTENANCE

Proper operation of the Fido Verdict can be learned by most users in under an hour. The system requires no consumables and very little maintenance. Samples are easily taken through an intuitive three-button interface. Once an identification is made, the system is immediately ready to interrogate new samples.

SPECTRA CHART



SPECIFICATIONS

Technology	Raman spectroscopy
Source	70 mW, 785 nm laser
Coverage	300 to 2000 cm ⁻¹
Resolution	12 cm ⁻¹
Consumables	None
Weight	14.6 oz (415 g)
Dimensions	3.4 in x 1.63 in x 7.5 in (85 mm x 40 mm x 190 mm)



FEATURES

- Onboard calibration
- Simple, three-button interface
- Intuitive user prompts
- Advanced algorithm to identify mixtures
- Low false alarm rate
- Ability to build user libraries
- Meets MIL-STD-810G for temperature, humidity, sand and dust, vibration, transit and functional shock



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