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Removing the uncertainty from chemical identification

Thermo Scientific 1064Defender Raman Analyzer

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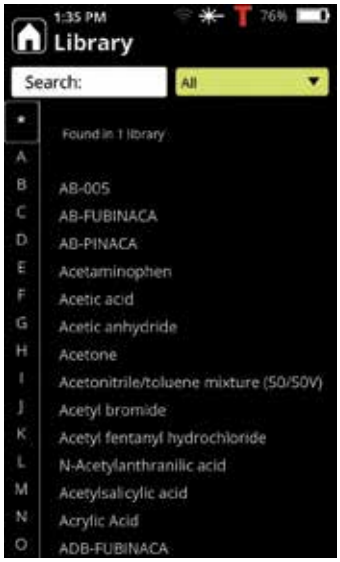
ThermoFisher SCIENTIFIC

Definitive answers. Maximum flexibility.

The Thermo Scientific 1064Defender Raman Analyzer provides you with a flexible tool to meet your agency's chemical identification needs. By offering user configurable scan profiles and libraries, the 1064Defender Raman Analyzer tailors itself to an officer's needs providing definitive results for confident and efficient decision making.

- **Ensure officer safety with touchless, point and shoot scanning**
  - Enhanced identification of heroin and other fluorescent materials safeguards against the hazard of exposure
  - Screener mode takes the guess work out of identifying substances by delivering results as either an alarm, warning, or clear to ensure users know what actions to take

- **User flexibility—through a customizable interface—ensures you and the instrument are always in sync**
  - 3 levels of control – administrator, operator and manager
  - 2 different scan modes for advanced users – ID and Screener modes
  - Modular and flexible – the device is future-proofed against the changing threat environment for law enforcement and the community



- **A comprehensive library of controlled substances, cutting agents, and precursors**
  - User defined libraries
  - Regular updates to ensure you stay current with emerging threats

- **Solid chain of custody**
  - GPS and Digital Camera for time and location stamping
  - Unique user ID and password – ensure your data is locked and safe
  - User generated meta data
  - Instrument logs – who scanned what substances and when

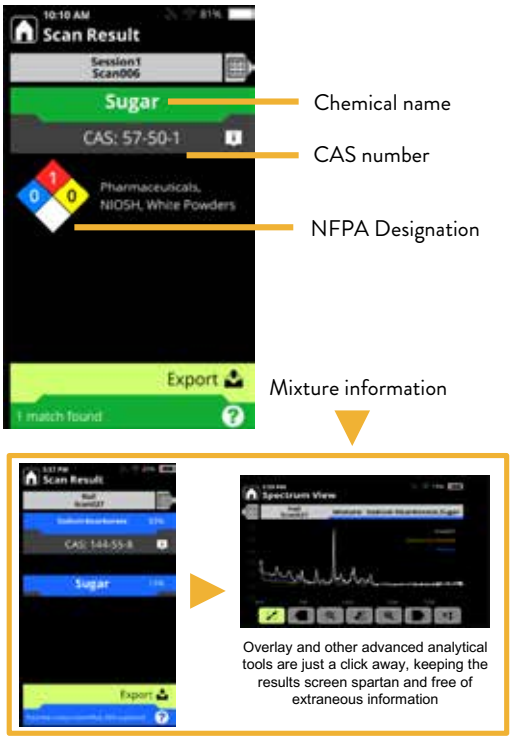
- **Built for the life you lead**
  - Removable and rechargeable batteries
  - Wi-Fi connectivity for data sharing
  - Water tight – IP68 rated
  - MIL-STD-810H rated
  - WebUI allows for easy configuration

Clear and intuitive interface.

ID Mode

- Ideal for advanced users
- General characterization of chemicals
- Detailed investigatory functionality

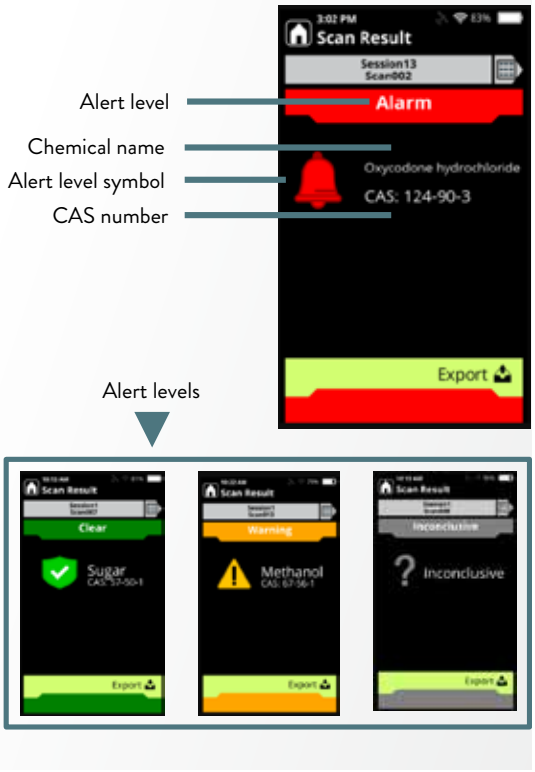
Detailed analysis of unknown chemicals



Screener Mode

- Ideal for all user levels
- Notifies users to presence of alert substance
- No interpretation needed to determine next steps

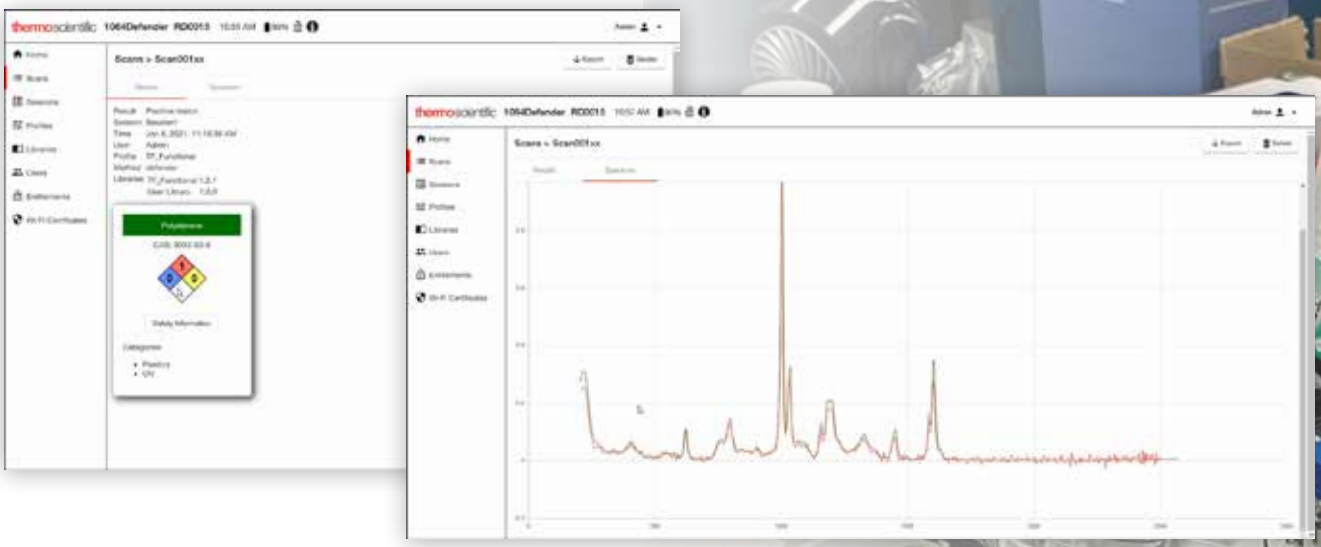
Monitor the presence of critical chemicals



Web Interface

Connect via Wi-Fi and USB to manage your instrument:

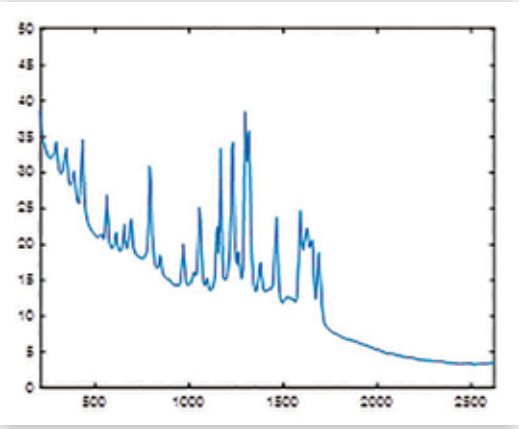
- Users
- Settings
- Libraries
- Data
  - Doesn't require download to a PC
  - Accessible through a PC browser



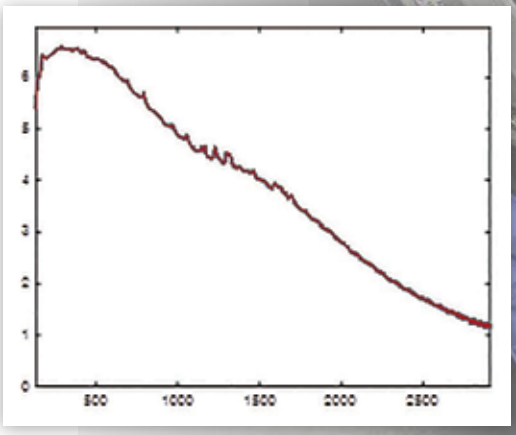
Touchless point and shoot scanning

1064Defender's strength is analyzing fluorescent substances. By suppressing background fluorescence, the 1064Defender analyzer enables point and shoot identification of common narcotics.

Clear spectral peaks are needed for identification of materials. In some substances the spectral fingerprint can be difficult to identify.



Above, 1064Defender's analysis of a controlled drug precursor. By subduing fluorescence, spectral peaks become visible, leading to the chemical's identification.



Above, an alternative product's results. Obscured by overwhelming fluorescence, the precursor's spectral peaks are not available for analysis--results are inconclusive.

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Service and support

A number of options are available to support you after purchase. Please speak with your sales representative to learn more about the available options.

Program	Coverage
 Basic	Basic repairs Software and library updates Discounts on advanced repairs
 Advanced	Basic to major repairs (non-engine) Software and library updates with reachback support Loaner unit discounts
 Premium	Basic through engine replacement Software and library updated with reachback support Complimentary loaner units Refresher training

The 1064Defender comes with a 2-year premium warranty.

Specifications	
Dimensions (HxWxD)	cm: 24.1 x 11.7 x 5.6 (in: 9.5 x 4.6 x 2.2)
Weight	1.6kg (3.5lb)
Laser (excitation wavelength)	1064.25 nm +/- 0.5 nm, 2 cm-1 linewidth
Laser output	Adjustable 480mW, 240mW, 96mW
Ocular hazard distance	122 cm | 48 in
Ambient operating temperature	-20°C to 50°C
Connectivity	Wi-Fi, and USB-C cable
Battery	Removeable and rechargeable Lithium Ion 7.2V, 49Wh, 4-hr run-time at 25°C
Ruggedized	MIL-STD-810H | IP68 rated

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