



Removing the uncertainty from chemical identification

Thermo Scientific 1064Defender Raman Analyzer

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.

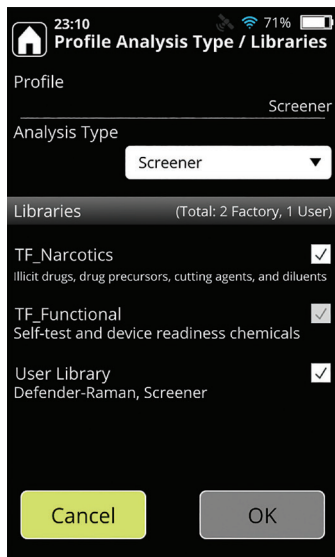
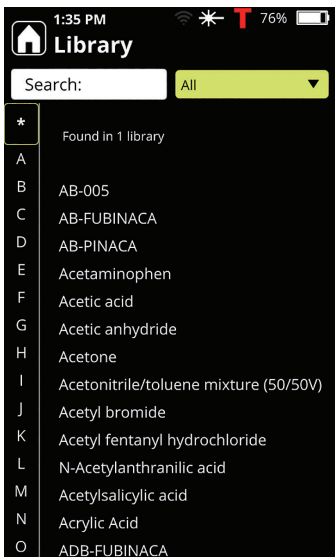
- **Ensure officer safety with touchless, point and shoot scanning**

- 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

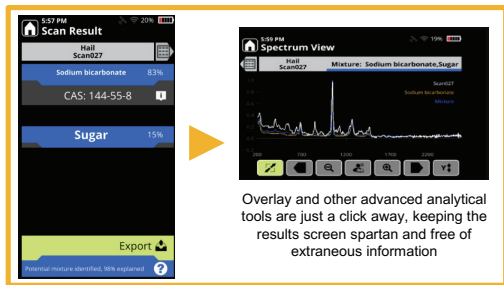
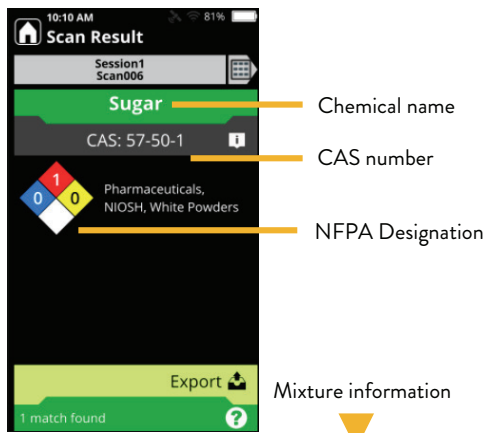


Clear and intuitive interface.

ID Mode

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

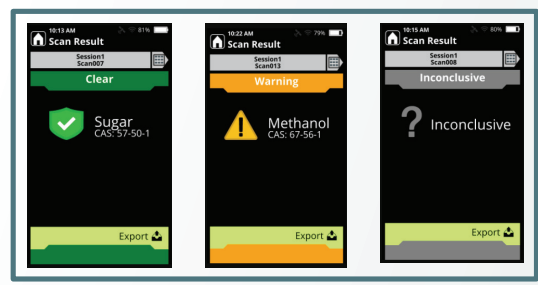
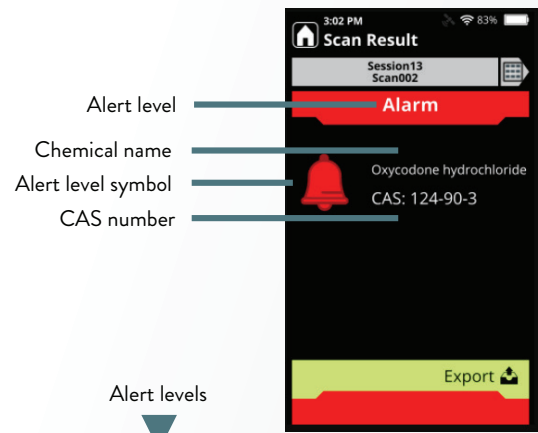
Detailed analysis of unknown chemicals



Screeener Mode

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

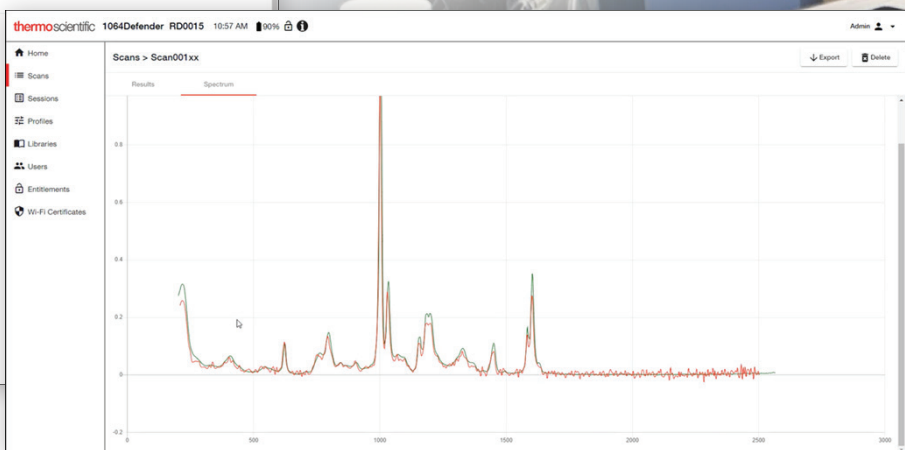
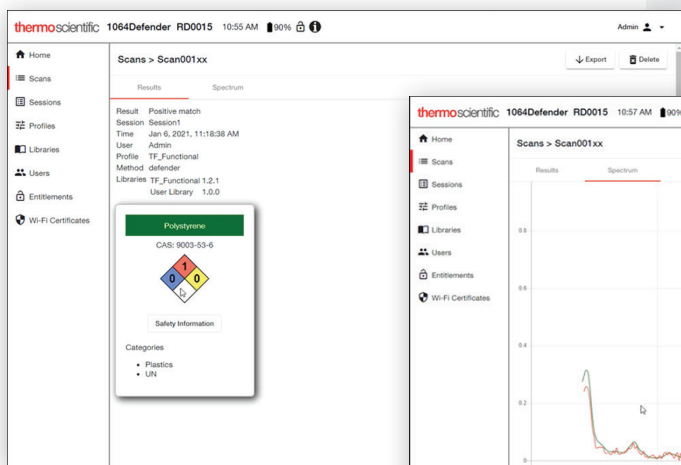
Monitor the presence of critical chemicals



Web Interface

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

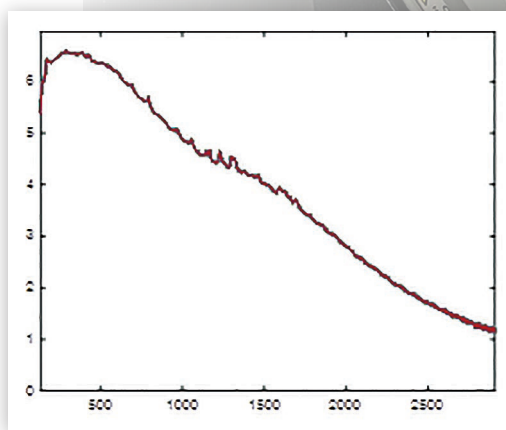
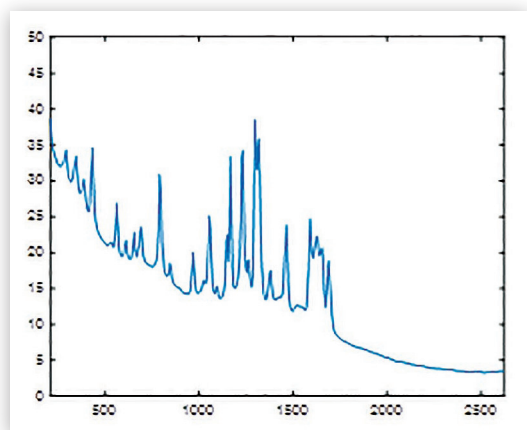
- Users
- Libraries
- Settings
- Data
- Doesn't require download to a PC
- Accessible through a PC browser



Touchless point and shoot scanning

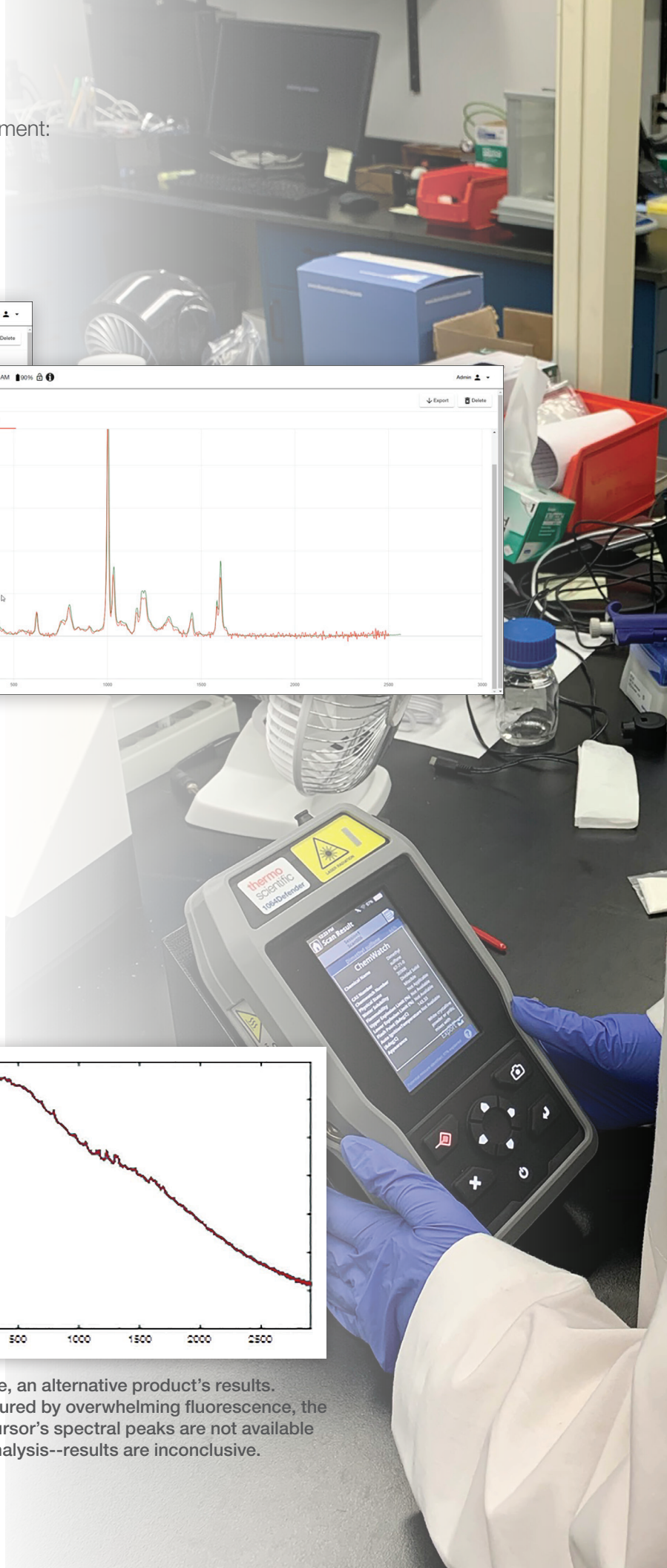
1064Defender's strength is analyzing fluorescent substances. By suppressing background fluorescence, the 1064Defender analyzer enables point and shoot identification of common narcotics.

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.



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.

Features	Premium	Advanced	Basic
All repairs (labor & parts)	✓	✓	✓
Return shipping for repairs	✓	✓	✓
Loaner unit	✓	✓	
Reachback support	✓	✓	
Up to 25 online training videos	✓	✓	
Software updates & upgrades	✓		
Library updates	✓		
50% off library expansions	✓		

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	160 cm 63 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

Find out more at thermofisher.com/1064defender