

Raman handheld analyzer

1064Defender Handheld Raman Analyzer

Definitive answers. Maximum flexibility.

- Touchless point and shoot scanning
- Clear and intuitive interface
- Comprehensive and expandable libraries
- Generate and send reports over wireless connectivity

Rugged Thermo Scientific™ 1064Defender™ Raman handheld chemicals spectroscopic analyzer – includes comprehensive users selectable libraries, ID and Screener algorithms, and 2-year Premium warranty.

1064 nm



Optical engine cuts through fluorescence

Wi-Fi



Share and report what you see in the field
with headquarters

Wi-Fi



Manipulate instrument settings from the
safety of your laptop



1064Defender Handheld Chemical Analyzer

Specifications	
Dimensions	24.1 x 11.7 x 5.6 cm 9.5 x 4.6 x 2.2 in
Weight	1.6 kg 3.5 lbs
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
Digital features	5 MP digital camera, global positioning, WebUI
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