



Raman handheld analyzer

Defender Omega Handheld Raman Analyzer

Reliable answers in unpredictable situations

The Thermo Scientific™ Defender™ Omega Handheld Raman Analyzer provides safe, fast identification of explosives, chemical warfare agents, narcotics and other chemicals.

- Touchless point and shoot scanning
- Intuitive interface with clear instructions
- Comprehensive, customizable libraries
- USB and wireless connectivity options



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

Defender Omega Handheld Raman Analyzer Specifications

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
Rugged design	MIL-STD-810H IP68 rated



Learn more at thermofisher.com/defenderomega