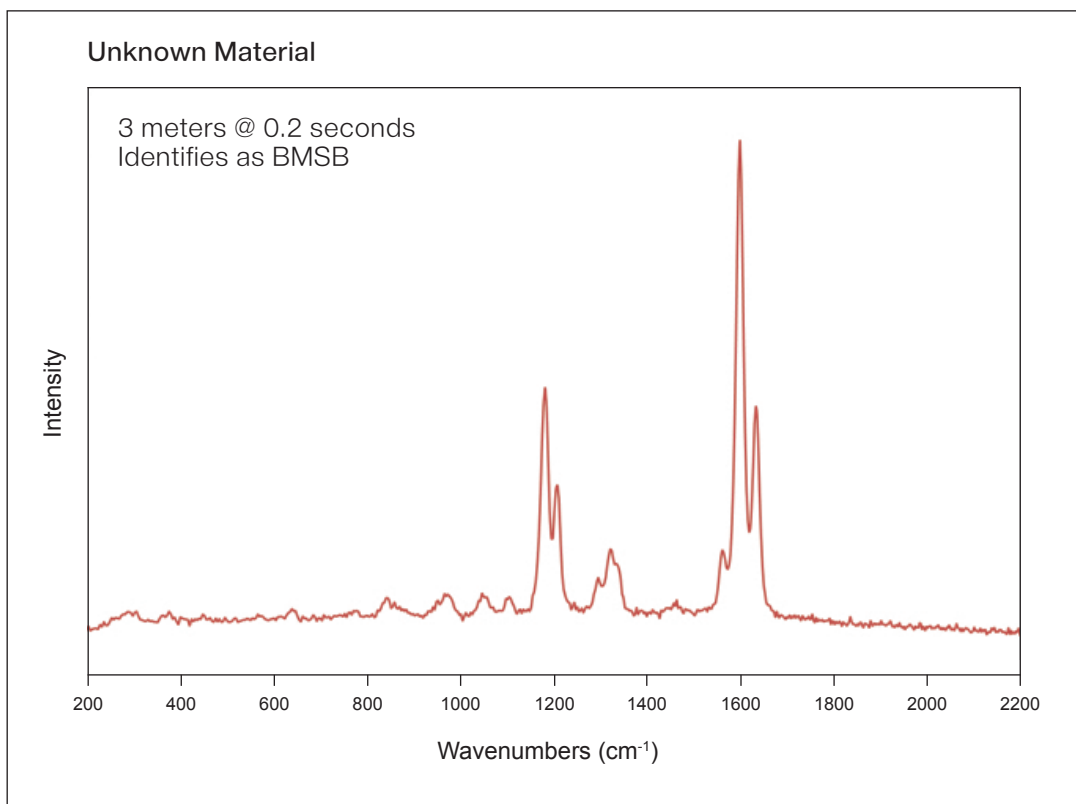


Observer

Handheld Stand-Off Raman Spectrometer



ObserveR is an ergonomically designed medium range stand-off Raman system designed to keep users at safer distances during the identification of explosives, chemicals, toxic industrial chemicals (TICs) and toxic industrial materials (TIMs). The ObserveR handheld model provides remote identification of materials from distances ranging from 0.3m to 3m via its laser range finder with auto-focus. The ObserveR can operate continuously for up to 4 hours on its rechargeable battery, has on-board library matching capabilities and a high storage capacity for large libraries that are user programmable for new entries.

SPECIFICATIONS	
Observation Distance	0.3m - 3m
	Laser range finder
	Auto-focus feature for rapid Raman signal optimization
Laser	350 mW 785 nm, stabilized
Resolution	20 cm^{-1}
Spectral Range	300 - 2300 cm^{-1}
Library Management	USB memory stick
	Matching algorithms - derivative correlation
Display	3.5" LCD color display
	Still-shot camera
	Target identification, bar correlation
User Interface	Touch screen or large button option
Battery	12 hours normal use, 4 hours continuous use
	Rechargeable USB/external power supply
I/O	USB connector for PC control
	Optional spectral display and processing
Physical	Hand strap
	Built-in lens dust cover
	Sealed design
Dimensions	8.5" x 4.4" x 3.65"
Weight	Under 5 lbs.



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