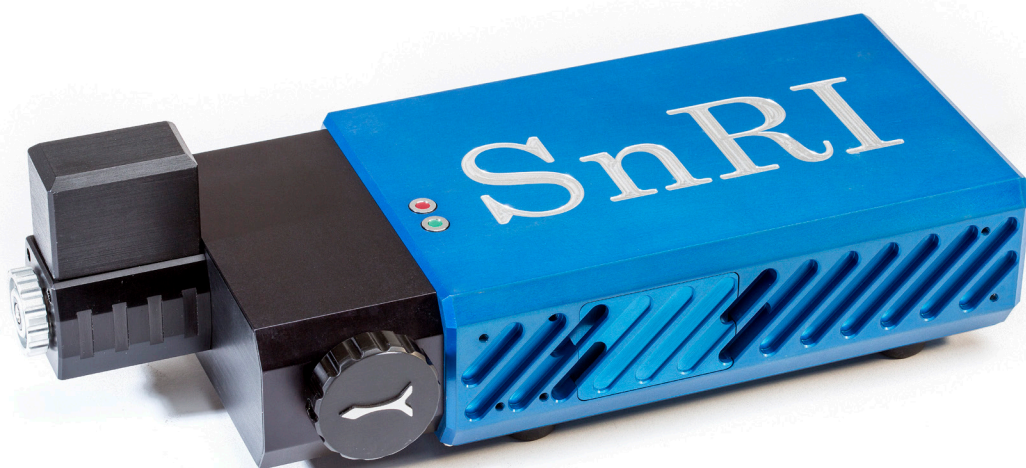
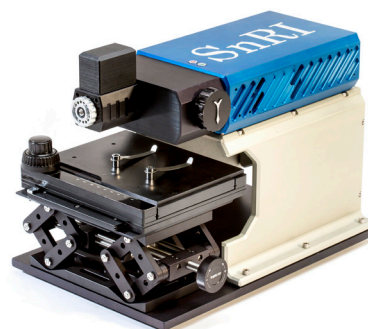


Sierra

Benchtop



Additional Use
Capabilities Shown



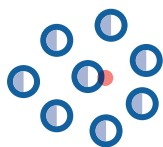
Research Grade Raman Spectrometers

Snowy Range Instruments (SnRI) introduces its Sierra Series spectroscopic readers. Built on a decade of experience in Raman instrument design the Sierra readers address many of the issues of optical analysis. Our readers are constructed from the best components in a solid aluminum body for rugged long-life usage.

Features

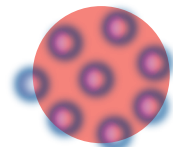
- Ruggedized small footprint
- High signal to noise ratio
- High sensitivity using low laser power
- Flexible Three Way Sampling
- ORS
- XYZ stage, imaging available

Sierra Series Featuring ORS Sampling



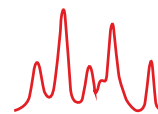
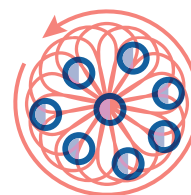
Small Spot Sampling
Small Area = High Resolution

Conventional Raman uses a small spot-size for optimal spectral resolution.



Large Spot Sampling
Large Area = Low Resolution

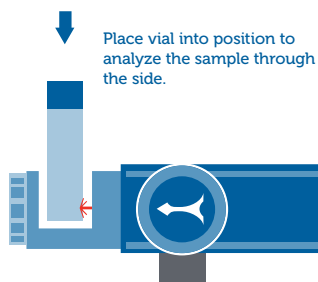
Increasing the spot-size captures more materials, but lowers the spectral resolution.



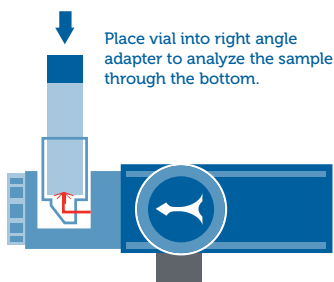
Orbital Raster Scan (ORS)
Large Area + High Resolution

ORS maintains the small spot-size, high resolution, and samples more material.

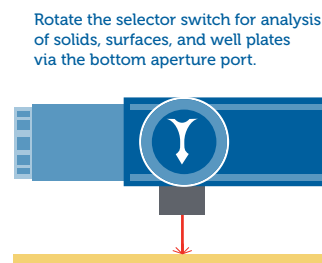
Three Way Sampling™ Available On Sierra Series Spectrometers



Side Sampling



Bottom Sampling



Surface Sampling

Product Specifications

Lasers	532 nm	638, 785, 808, 980 nm
Laser Power* (adjustable)	50 mW	35, 100, 100, 50 mW
Detector	2048 pixel, TE Cooled to -10° C	
Spectral Resolution	7 cm ⁻¹	**4 cm ⁻¹ , 8 cm ⁻¹
Spectral Range	200-3200 cm ⁻¹	**200-2000 cm ⁻¹ 200-3200 cm ⁻¹
Footprint W x L x H	12" x 8" x 3"	9" x 5.5" x 2.5"
System Weight	6 lbs	8 lbs

*Class 3B Laser Product

**High Resolution System