

Raman Microscopy System

NS200 Series

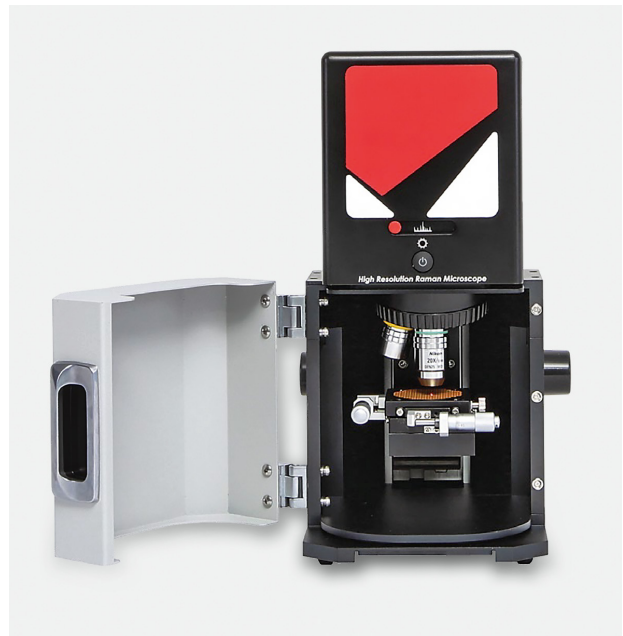
FEATURES

- > Personal benchtop Raman spectrometer
- > Bright field sample imaging
- > Signal acquisition with higher sensitivity than normal handheld types
- > Operation with laptop or desktop computer (USB interface)
- > Convenient dark room chamber
- > Analysis of detected signal with library database
- > Easy and intuitive operation & analysis software
- > One click analysis report

APPLICATIONS

- > Characterization about the Chemical Composition and Structure of Organic/Inorganic Material
- > Various Sample Type Available: Solid (Powder/Film Type) and Liquid (Gel/Slurry Type)
- > Carbon Material (CNT, Graphene, etc.) Analysis
- > 2D Transition Metal (MoS, WSe, WSe) Dichalcogenide Analysis

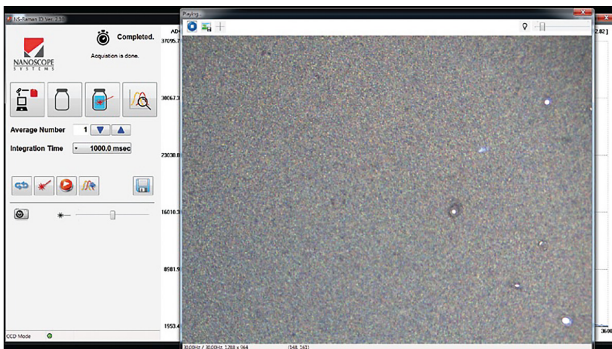
NS200 Raman spectrometer is designed considering the experimental convenience, integrated with the optical imaging microscope to see the target sample. This instrument is a compact, easy to use, turn-key Raman spectrometer system which includes laser, spectrometer and CCD in a compact rugged base module. System designed for the personal daily use in the laboratory, focusing on the high performance to price ratio. The most popular and time tested series of Raman spectrometers for routine analysis – feature new styling and performance enhancements.



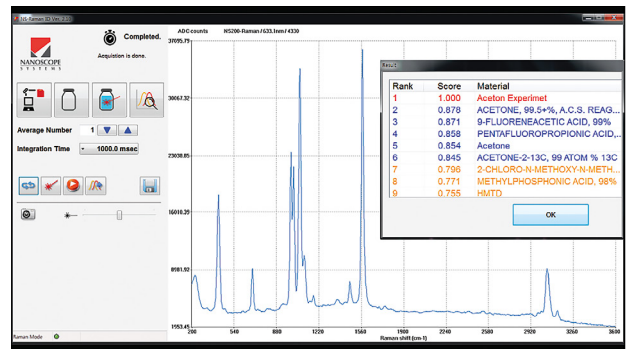
Specifications ¹⁾

MODEL	NS200	NS220
Laser wavelength	785 nm ± 1 nm	633 nm ± 1 nm
Spectrum range	100 – 3600 cm ⁻¹	
Spectrum resolution	≤ 10 cm ⁻¹	
Laser output power	100 mW	40 mW
Collection optics	Depends on objective lens NA 0.45 / WD 3.1 mm (default)	
Exposure	Min : 5 msec ~ Max : 65 sec	
External power	12 V @ 5 A	
Weight	~ 9.5 kg (w/o Objective lens)	
Size	Head only : 140 × 228 × 162 mm ³ / With frame : 208 × 266 × 350 mm ³	
I/O (interface)	USB 2.0 , USB 3.0	
Software	NSRamanID	
Data formats	.txt, .csv	
Library	~200 materials	
User library	Can be built by user	
Display	By laptop computer	
Feature	Multiple objectives, Laser power measurement, Bright field CCD image	

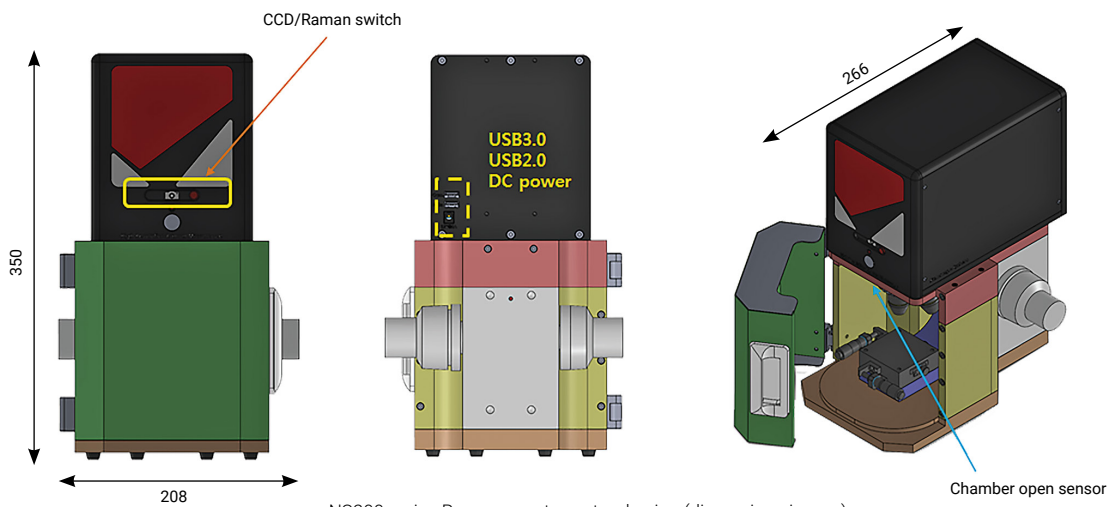
¹⁾ Due to continuous improvements all specifications are subject to change.



Optical microscope mode.
CCD imaging



Raman spectrometer mode.
Spectrum acquisition and material search from the library database



NS200 series Raman spectrometer drawing (dimensions in mm)