

NS-Raman

Raman Spectrometer & Analyzer



■ Benchtop NS200-Raman

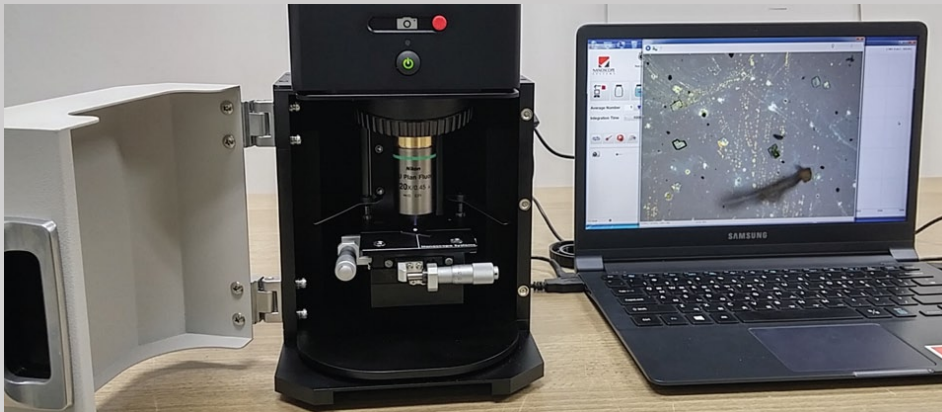
- Personal benchtop Raman spectrometer
- Bright field sample imaging
- Signal acquisition with higher sensitivity than normal handheld types
- Operation with laptop or desktop computer (USB interface)
- Convenient dark room chamber
- Analysis of detected signal with library database
- Easy and intuitive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

■ Specifications

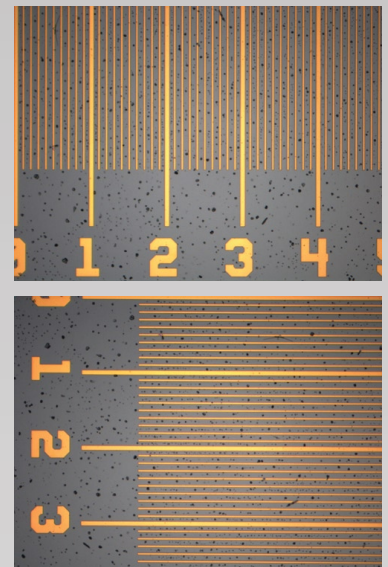
Model	NS200-Raman	NS220-Raman
Laser Wavelength	785 nm \pm 1 nm	633 nm \pm 1 nm
Spectrum Range	200 cm ⁻¹ ~ 3600 cm ⁻¹	
Spectral Resolution	\leq 10 cm ⁻¹	\leq 10 cm ⁻¹
Laser Output Power	100 mW	40 mW
	Depends on Objective lens	
Collection Optics	NA 0.45 / WD 4.5 mm (Default) Depends on Objective lens	
Exposure	Min : 5 msec ~ Max : 65 sec	
External Power	12V@5A	
Weight	~ 9.5 kg (w/o Objective lens)	
Size	Head only : 140 x 228 x 162 mm ³ With frame : 208 x 266 x 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	

■ Microscope-integrated Raman spectrometer

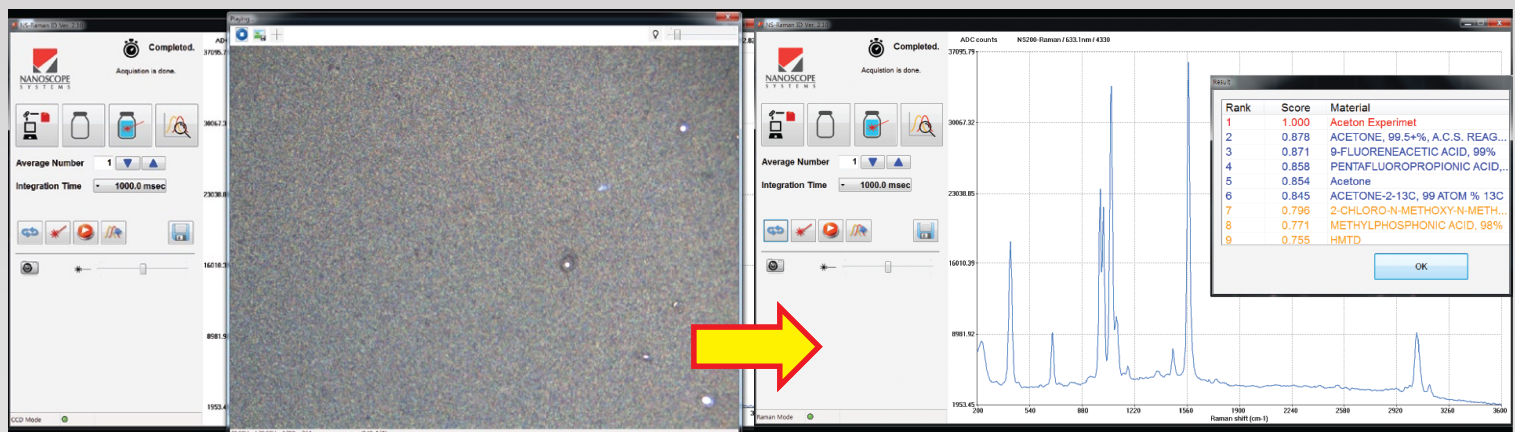
- Easy to focus on the surface of a sample by optical microscope imaging
- Convenient switching between optical microscope mode and Raman spectrometer mode



Operation with laptop computer by USB interface



CCD image – Field of view
480 x 360μm @ 20X objective lens



Optical microscope mode - CCD imaging

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

■ Dimensions

