

NS100 series

Raman Spectrometer

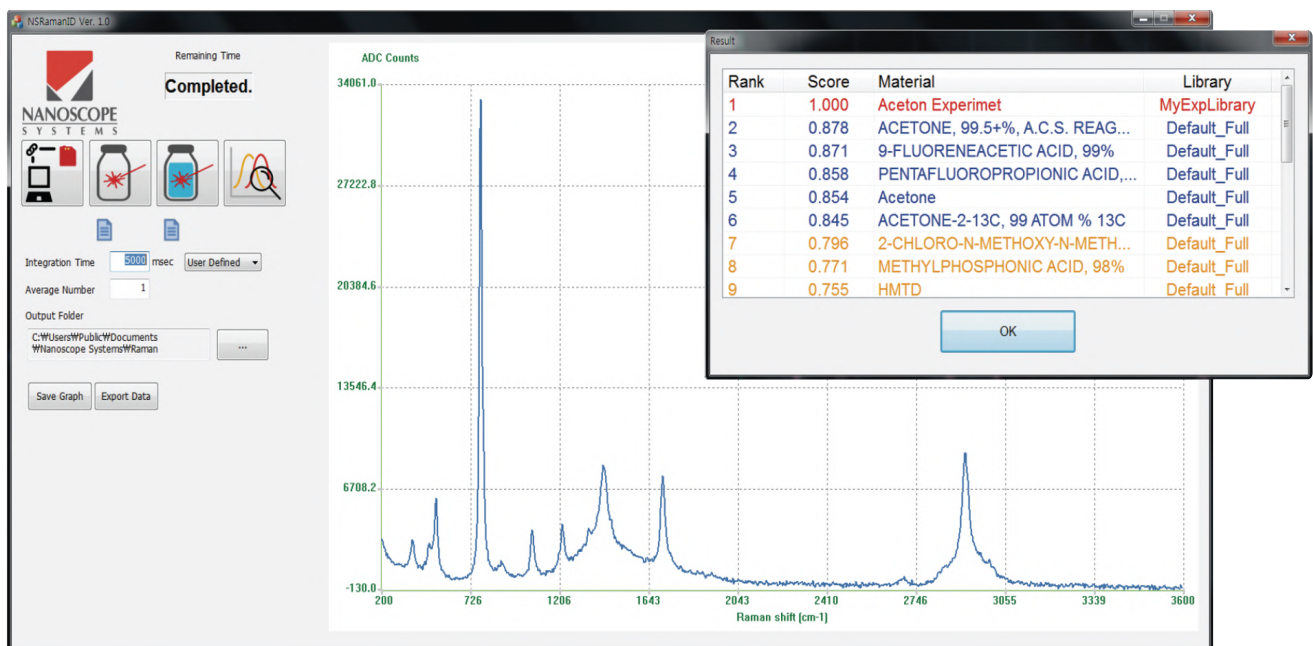


NS100-H series Raman spectrometer module

NS100 series are portable, fully integrated Raman spectrometer modules that can conveniently interface with other systems. USB interface with any computer will expand its application area. It will work as the best test platform at the development stage of the field application of Raman technology. More customization is available.



Raman spectrum acquisition and material search from the library database



Quick and convenient measurement with vial holder



Specifications

Model	NS100-H	NS120-H
Laser Wavelength	785 nm $\pm$ 1 nm	633 nm $\pm$ 1 nm
Laser Output Power	40 mW	40 mW
Spectral Resolution	100 ~ 3,200 cm ⁻¹	100 ~ 3,500 cm ⁻¹
Spectral Resolution	$\leq$ 10 cm ⁻¹	
Collection Optics	NA 0.3 / WD 8.0 mm	
Exposure	Min : 50 msec ~ Max : 10 sec	
External Power	12V@5A	
Weight	~ 1.4 kg	
Size	220 x 130 x 60 mm ³	
I/O (Interface)	USB 3.0	
Software	NSRamanID	
Data Formats	.txt, .csv	
Library	~ 200 materials	
User Library	Can be built by the user	
Display	By laptop computer	
Measurement Accessories	Vial holder, Tabletop frame	

Features & Benefits

- Compact Raman spectrometer module
- Operation by a laptop computer (USB interface)
- Convenient measurement with vial holder
- Analysis of detected signal with library database
- Easy and intuitive operation & analysis software
- Higher sensitivity than normal handheld types
- One click analysis report

Operation by a laptop computer



Focuser frame for NS100-H series

NS100-H series Raman spectrometer module can be used in the form of a table-top type with a focuser frame. The dedicated design for the NS100-H series enables easy installation and removal of the spectrometer module.

Specifications

Model	NS Frame-H
Lateral stroke	X : 12.8 mm Y : 12.8 mm
Vertical stroke	Z: 30.0 mm
Rotation	Θ : 360° (optional)
Accessories	Sample adapter



Focuser frame for a table-top type configuration



With NS100-H spectrometer

Nanoscope Systems' products for Raman spectroscopy

NS200 series	single laser micro Raman spectrometer
NS100 series	compact Raman spectrometer module
Ramcheck-P200	for reading SERS strip
SERSpace	SERS substrate amplifying Raman signal