

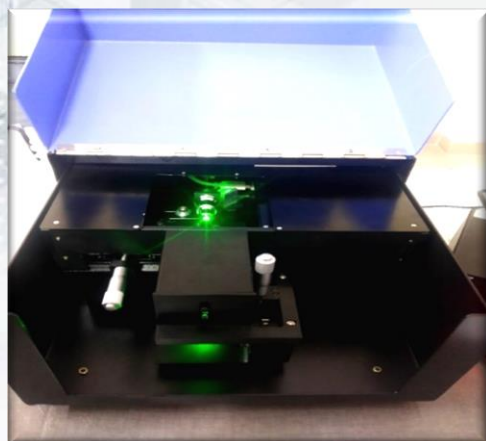
RIHRM: Direct Coupled High-Resolution Raman Spectrometer with Imaging

Our Direct Coupled High-Resolution Raman Spectrometer with Imaging RIHRM Series developed by the “**RI Instruments & Innovation India**” which applies in the field of **Medical Sciences, Material Science, Nano Science, Basic Sciences, Food Safety, Environmental Sciences, Biological Science, Forensic Science** and more.

Software & Hardware Features

Instrument Control & Data Collection parameters are user-definable, such as exposure time, dark correction, base line correction, signal averaging, spectral smoothing, automatically saved spectra. Graphics could also be saved in .txt, .bmp, format and could be opened in any Third-Party Software i.e. Origin, Excel and other data processing software.

In one setup user can perform Raman, Raman Imaging.



Standard Models

Model No.	Wavelength Range
RIHRM-S	200- 4500 cm-1
RIHRM-M	120- 4500 cm-1
RIHRM-C	Customized

Contact Us:

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Technical Specifications

Design	:	Czerny Turner
Detector	:	Linear array
Spectral Range	:	120 /200 cm^{-1} to 4500 cm^{-1}
Pixels	:	Linear Array CCD 3648 Pixel
TEC Cooled	:	-40 $^{\circ}\text{C}$ (Standard) , -45 $^{\circ}\text{C}$ (Optional)
Filter	:	Order Sorting Filter
Slit	:	Continuous Variable 0- 200/400 μm
Integration Time	:	1ms – 60 secs
A/D Resolution	:	16 Bit
Stray light:	:	<0.05% at 600 nm; <0.10% at 435 nm
Power Consumption	:	100mA @ 5V from USB interface
Trigger Modes	:	3 modes – Optional
Operating System	:	Windows 10 /8 / 7 (32 & 64 Bit)
Software	:	RI Spectra
Computer Interfaces:	:	USB 2.0
Focal Length	:	250 mm
Coupling	:	Direct Coupled air free optics
Optical Resolution	:	1-3 cm^{-1}
Signal-to-noise ratio	:	15000:1
Laser Wavelength	:	532 nm
Laser Stability	:	1%
Laser Power	:	200 mW (Standard), 300mW – 500mW (Optional)
Laser Mechanism	:	Tunable
Sample Holder	:	Raman of powder/liquid/thin film samples
Objective Lens	:	4x, 10x, 40x
Digital camera	:	2 MP Standard and 5 MP (Optional)
Focusing	:	Precise Stage height movement

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