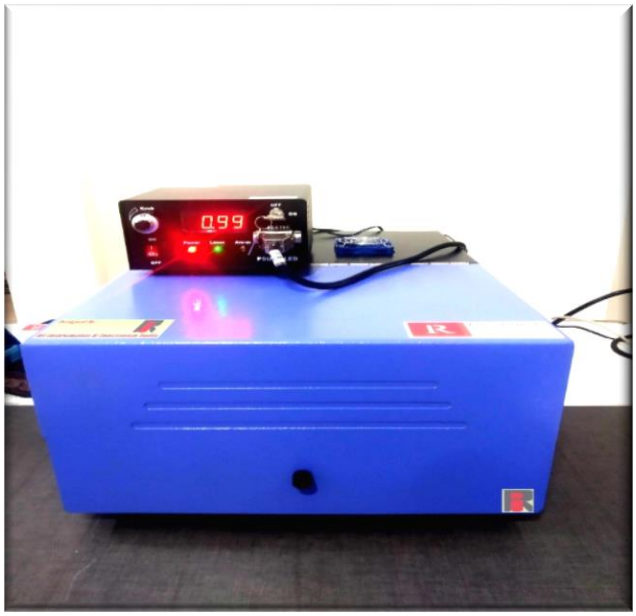
RI Instruments & Innovation India

Leading Spectroscopy Company

Our Marketing Partner:

RIHRM Direct Coupled RAMAN Spectrometer:

Our Direct Coupled Raman Spectrometer 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**.

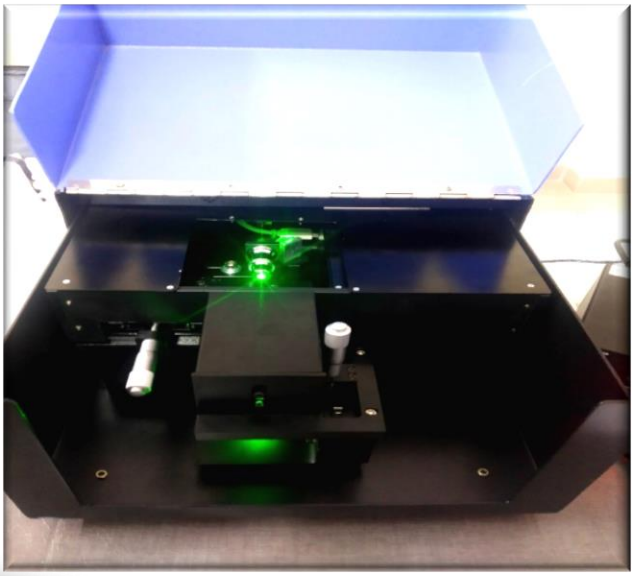


Software & Hardware Features:

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.

Our RI Spectra also includes, parameters like resolution in 1nm steps, Optical triggering, etc.



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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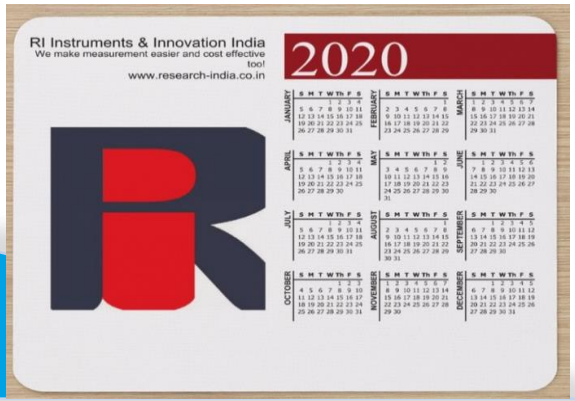

Specifications

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 ^{0}C (Standard) , -45 ^{0}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, With Database Search Option & Manual Shift Calibration, Measurement – Raman, Absorption, Transmission, Reflection, Fluorescence, Irradiance and Color Measurement (CRI)
Computer Interfaces:	:	USB 2.0
Spectral range	:	120/200- 4500 cm^{-1}
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 Power	:	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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