



## Leading Spectroscopy Company

### RIRM: Direct Coupled Raman Spectrometer

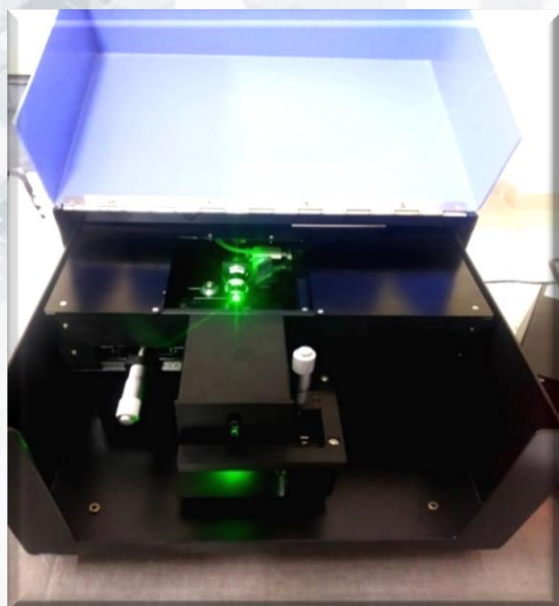
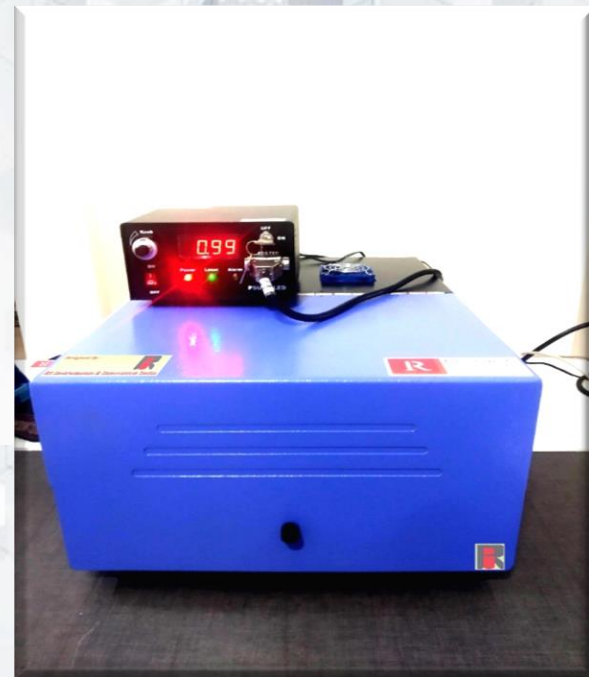
Our Direct Coupled Raman Spectrometer RIRM Series developed by the “**RI Instruments & Innovation India**” which applies in the field of **Medical Sciences, Material Science, Nano Science, Basic Sciences, Food Safety, Environmental Sciences, Biological Science, Forensic Science** and more.

### 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 measurement.

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



### Standard Models

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

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### Technical Specifications

<b>Design</b>	:	Czerny Turner
<b>Detector</b>	:	Linear array
<b>Pixels</b>	:	Linear Array CCD 3648 Pixel
<b>TEC Cooled</b>	:	-35 °C (Standard) , -40 °C ( Optional )
<b>Filter</b>	:	Order Sorting Filter
<b>Slit</b>	:	Continuous Variable 0- 200/400 μm
<b>Spectral range</b>	:	120/200- 4500 cm <sup>-1</sup>
<b>Focal Length</b>	:	250 mm
<b>Coupling</b>	:	Direct Coupled air free optics
<b>Optical Resolution</b>	:	2-4 cm <sup>-1</sup>
<b>Signal-to-noise ratio</b>	:	12000:1
<b>Integration Time</b>	:	1ms – 60 secs
<b>A/D Resolution</b>	:	16 Bit
<b>Stray light:</b>	:	<0.05% at 600 nm; <0.10% at 435 nm
<b>Power Consumption</b>	:	100mA @ 5V from USB interface
<b>Trigger Modes</b>	:	3 modes – Optional
<b>Operating System</b>	:	Windows 10 /8 / 7 (32 & 64 Bit)
<b>Software</b>	:	RI Spectra, With Database Search Option & Manual Shift Calibration, Measurement – Raman
<b>Computer Interfaces:</b>	:	USB 2.0
<b>Laser Wavelength</b>	:	532 nm
<b>Laser Stability</b>	:	1%
<b>Laser Power</b>	:	200 mW (Standard), 300mW – 500mW (Optional)
<b>Laser Mechanism</b>	:	Tunable
<b>Objective Lens</b>	:	10x
<b>Coupling</b>	:	Optics
<b>Edge Filter</b>	:	Long Wave Pass Filter
<b>Sample Stage</b>	:	Vertical for Holding Powder Sample (Standard) Horizontal for holding Liquid Sample- Optional

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