

## RIRM Direct Coupled RAMAN Spectrometer:

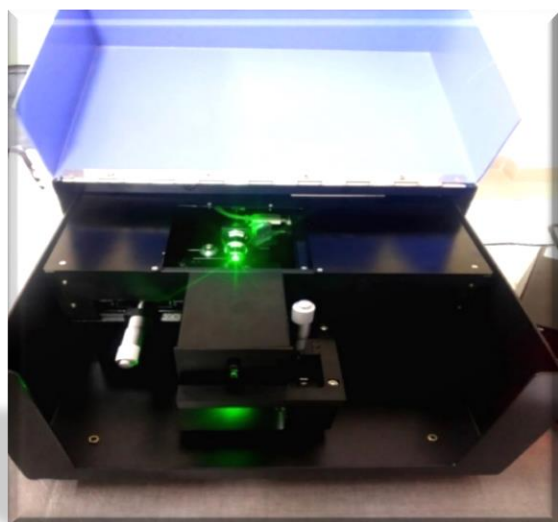
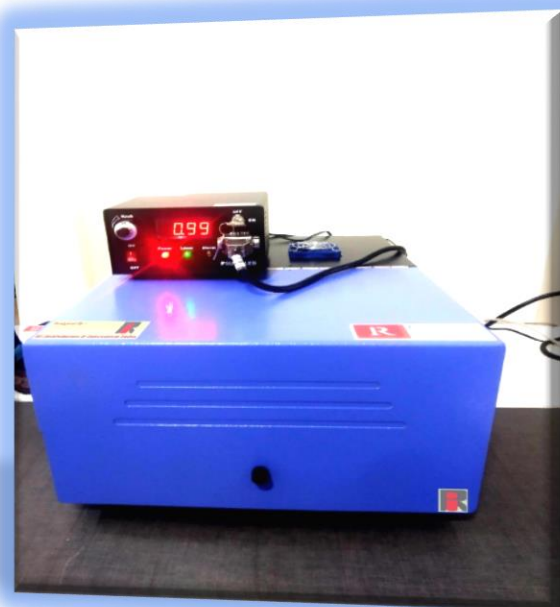
Our Direct Coupled Raman Spectrometer RIRM Series developed by the **RI Instruments & Innovation India** which applies in the field of **Medical Sciences, Material Science, Nano Science, Basic Sciences, Food Safety, Environmental Sciences, Biological Science, Forensic Science** and more.

## 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 $\text{cm}^{-1}$
RIRM-M	120- 4500 $\text{cm}^{-1}$
RIRM-C	Customized

### Contact Us:

**RI Nanotech India**

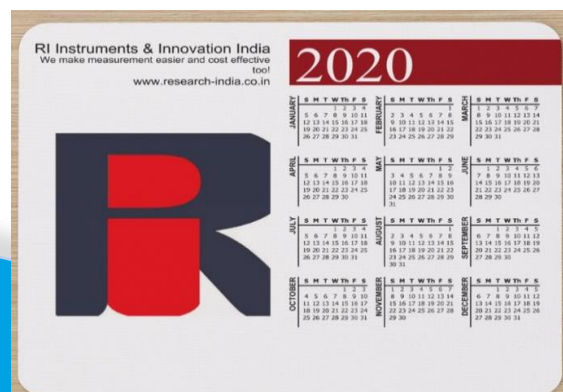
Plot No. 92, Sector IIDC, SIDCUL

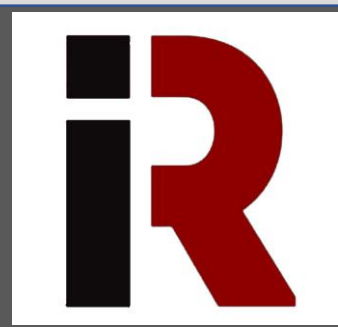
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## Specifications

Design	:	Czerny Turner
Detector	:	Linear array
Pixels	:	Linear Array CCD 3648 Pixel
TEC Cooled	:	-35 °C (Standard) , -40 °C ( Optional )
Filter	:	Order Sorting Filter
Slit	:	Continuous Variable 0- 200/400 μm
Spectral range	:	120/200- 4500 cm <sup>-1</sup>
Focal Length	:	250 mm
Coupling	:	Direct Coupled air free optics
Optical Resolution	:	2-4 cm <sup>-1</sup>
Signal-to-noise ratio	:	12000:1
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
Computer Interfaces:	:	USB 2.0
Laser Wavelength	:	532 nm
Laser Stability	:	1%
Laser Power	:	200 mW (Standard), 300mW – 500mW (Optional)
Laser Power	:	Tunable
Objective Lens	:	10x
Coupling	:	Optics
Edge Filter	:	Long Wave Pass Filter
Sample Stage	:	Vertical for Holding Powder Sample (Standard) Horizontal for holding Liquid Sample- Optional

### Contact Us:

#### RI Nanotech India

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