



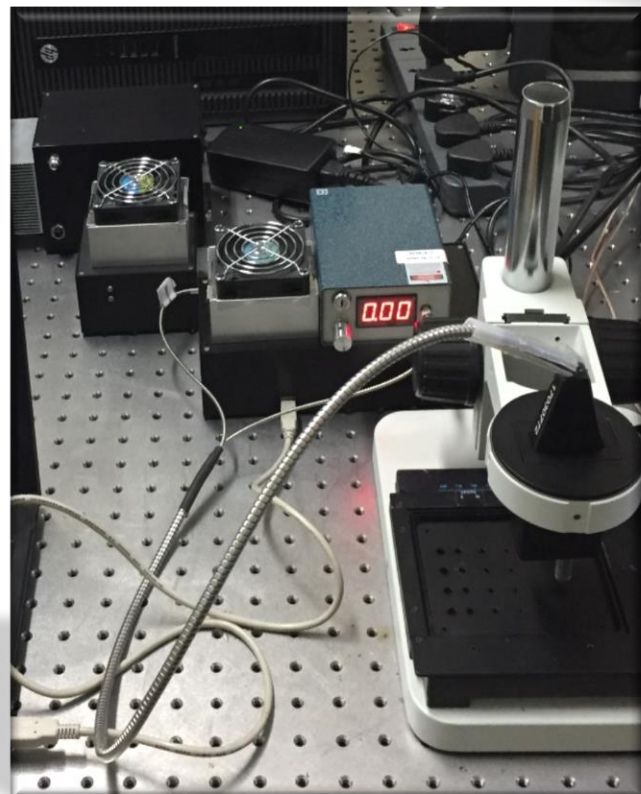
### RIFRM Fiber Coupled RAMAN Spectrometer:

Our Fiber Coupled Raman Spectrometer RIFRM 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.

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



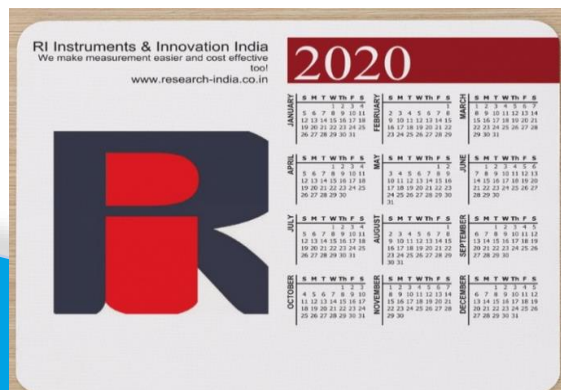
### Standard Models

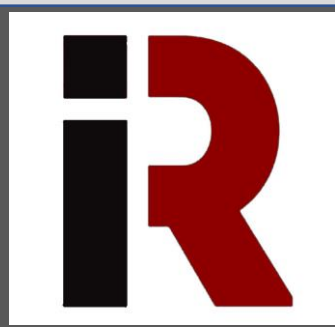
Model No.	Wavelength Range
RIFRM-S	200- 4500 $\text{cm}^{-1}$
RIFRM-M	120- 4500 $\text{cm}^{-1}$
RIFRM-C	Customized

### Contact Us:

#### RI Nanotech India

Plot No. 92, Sector IIDC, SIDCUL  
 Rudrapur – 263153, Uttarakhand (INDIA)  
 Mob: +919958910391,9958939104  
 Email: [rinanotech@gmail.com](mailto:rinanotech@gmail.com)  
 Website: [www.rinanotech.com](http://www.rinanotech.com)





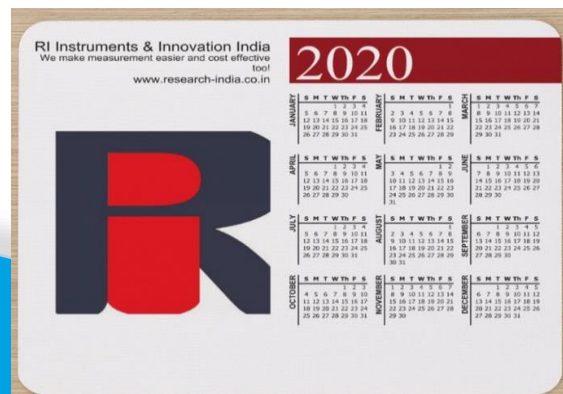
Specifications

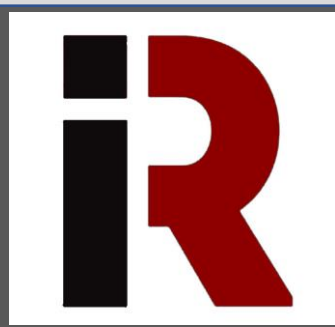
Design	:	Czerny Turner
Detector	:	Linear array
Pixels	:	Linear Array CCD 3648 Pixel
TEC Cooled	:	-35 °C (Standard) , -40 °C ( Optional )
Filter	:	Order Sorting Filter
Slit	:	Continuous Variable 0- 200/400 μm
Spectral range	:	120/200- 4500 cm <sup>-1</sup>
Focal Length	:	200 mm
Coupling	:	0.39 NA, 600 μm Core SMA Connectors Multimode
Optical Resolution	:	4-6 cm <sup>-1</sup>
Signal-to-noise ratio	:	8000:1
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 ( Optional 785nm)
Laser Stability	:	1%
Laser Power	:	200 mW (Standard), 300mW – 500mW (Optional)
Laser Power	:	Tunable
Excitation fiber	:	100 um optical fiber Standard
Collection Fiber	:	200 ums optical fiber (Standard) and 7 cores fiber :200 um with the 1 core of 600um Round to Linear optical fiber (Optional)
Probe Tip	:	38 mm
Probe Material	:	2A12 after Blackening; Stainless steel detector tip
Fiber Connection	:	Detachable Type
Coupling Connector	:	SMA (standard) and FC (Optional)
Laser line blocking	:	OD 6
Focal Length	:	7.5 mm
Solid Sample Holder (Optional)	:	

Contact Us:

RI Nanotech India

Plot No. 92, Sector IIDC, SIDCUL  
 Rudrapur – 263153, Uttarakhand (INDIA)  
 Mob: +919958910391,9958939104  
 Email: [rnanotech@gmail.com](mailto:rnanotech@gmail.com)  
 Website: [www.rnanotech.com](http://www.rnanotech.com)





-SSH1	:	Basic Raman Probe Holder for Powder and thin film samples
-SSH2	:	Advance Raman Probe Holder for Powder and thin film samples with Focusing knobs and XYZ Stage to hold the sample

**Contact Us:**

**RI Nanotech India**

Plot No. 92, Sector IIDC, SIDCUL  
 Rudrapur – 263153, Uttarakhand (INDIA)

Mob: +919958910391,9958939104

Email: [rinanotech@gmail.com](mailto:rinanotech@gmail.com)

Website: [www.rinanotech.com](http://www.rinanotech.com)

RI Instruments & Innovation India  
 We make measurement easier and cost effective too!  
[www.research-india.co.in](http://www.research-india.co.in)

**2020**

CALENDAR FOR 2020 showing months from JANUARY to DECEMBER with days of the week and dates.