



Leading Spectroscopy Company

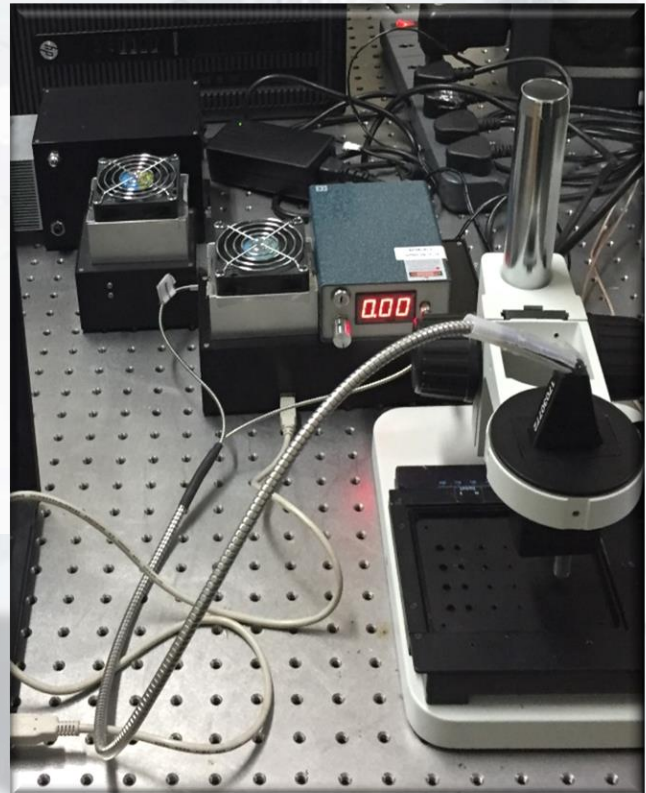
RIFRM: Fiber Coupled Raman Spectrometer

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 cm-1
RIFRM-M	120- 4500 cm-1
RIFRM-C	Customized

Contact Us:

MANAS|W6-11|Adarsh Nagar |
Haldawani – 263139 Uttarakhand (INDIA)
Mob: +91 7983555425, 8859756356
Email: instrumentri@gmail.com
Website: www.research-india.co.in,
www.rinanotech.com

Overseas Company/Office:

RINZTECH NZ LTD
Totara Street | Mount Maunganui |
3150 Tauranga | New Zealand
Tel: +64 21 278 8800
Email: rajendra@rinztech.co.nz
Website: www.rinztech.co.nz



Leading Spectroscopy Company

Technical 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 ⁻¹
Focal Length	:	200 mm
Coupling	:	0.39 NA, 600 μm Core SMA Connectors Multimode
Optical Resolution	:	4-6 cm ⁻¹
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 Mechanism	:	Tunable

Fiber Specification

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

Contact Us:

MANAS|W6-11|Adarsh Nagar |
Haldawani – 263139 Uttarakhand (INDIA)
Mob: +91 7983555425, 8859756356
Email: instrumentri@gmail.com
Website: www.research-india.co.in,
www.rinanotech.com

Overseas Company/Office:

RINZTECH NZ LTD
Totara Street | Mount Maunganui |
3150 Tauranga | New Zealand
Tel: +64 21 278 8800
Email: rajendra@rinztech.co.nz
Website: www.rinztech.co.nz



Leading Spectroscopy Company

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)		
-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:

MANAS | W6-11 | Adarsh Nagar |
Haldawani – 263139 Uttarakhand (INDIA)
Mob: +91 7983555425, 8859756356
Email: instrumentri@gmail.com
Website: www.research-india.co.in,
www.rinanotech.com

Overseas Company/Office:

RINZTECH NZ LTD
Totara Street | Mount Maunganui |
3150 Tauranga | New Zealand
Tel: +64 21 278 8800
Email: rajendra@rinztech.co.nz
Website: www.rinztech.co.nz