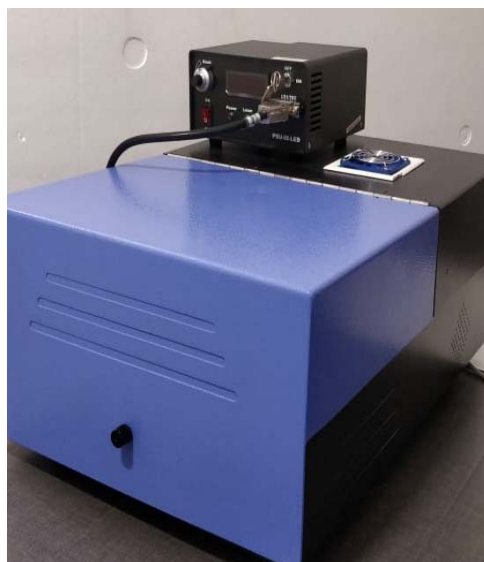


DIRECT COUPLED RAMAN SPECTROMETER



Our RI-D2R Series Raman Spectrometers are developed by Research India's Innovation group (RI Instruments & Innovation India) which applies in the field of Materials Science, Diamond Testing, Food Safety, Bioscience, Nanoscience, Forensic, Biotech, Environmental Sciences and more.

RI-D2R Series Raman Spectrometers allow the analysis of samples with a microscopic laser spot using a high-quality lens and filters. There are no fiber optic couplings used for the collection and excitation of signals, to minimize signal losses.

" Our philosophy is a collection of signals though direct-coupled optics"

Standard Models:

Model No.	Wavelength Range
RI-D2R-S	200 - 4500 cm^{-1}
RI-D2R-A	120 - 4500 cm^{-1}
RI-D2R-C	Customized
-H	Horizontal Sample Holder
-G	Vertical Sample Holder
Optional	
-V	Continuous Variable Slit
-D	Dual Sample Holder
-T40	Cooled Detector -40°C

Advantage:

No sample Preparation needed
Non-destructive sampling
Non-invasive measurement

Application

Raman spectral analysis
Chemical or biological research
Environmental sciences
Diamond identification
Food safety testing
Pharmaceutical and medical diagnosis
Geological exploration
Hazard detection

Software Features:

Instrument Control & Data Collection parameters are user-definable, such as Exposure time, dark correction, signal averaging, spectral smoothing, Automatic Saved Spectra. Graphics saved in .txt format and be opened in any Third-Party Software E.g. Origin, Excel and other data processing software.

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RIFRAMAN - Fiber Optic Based Raman System, available version 532 & 785 nm



SPECIFICATION:

Design	:	Czerny Turner
Detector	:	CCD linear array
Lens	:	Detector Collecting lens (Quartz)- Optional
Spectral Range	:	120/200 – 4500 cm^{-1}
Pixels	:	3648
Focal Length	:	150 mm (Standard) and 200 mm Optional
TEC Cooled	:	- 35 $^{\circ}$ C (Standard), - 40 $^{\circ}$ C (Optional)
Filter	:	Order Sorting Filter
Slit	:	Variable 0- 200/400microns or Fixed
Optical Resolution	:	5 cm^{-1} to 14 cm^{-1} *
Signal-to-noise ratio	:	10000 : 1, (12000:1) #
A/D Resolution	:	16 Bit
Integration Time	:	10 μs – 60 secs (120 sec – Optional)
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
Computer Interfaces:	:	USB 2.0**
Temperature:	:	-30 $^{\circ}$ C to +70 $^{\circ}$ C Storage & -10 $^{\circ}$ C to +50 $^{\circ}$ C Operation
Humidity	:	0%-90% non-condensing
Wavelength	:	532nm
Stability	:	1%
Power	:	200 mW (Standard), 300mW – 500mW (Optional)
Power Tunability	:	Yes
Coupling	:	Optics
Edge Filter	:	Long Wave Pass Filter
Sample Stage	:	Horizontal for holding Liquid Sample Vertical for Holding Powder Sample

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*depends on slit size and spectral range

** Compatible to USB3.0 Ports

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IMAGING RAMAN MICROSCPECTROMETER



Our RI-M2R Series Imaging Raman Microspectrometer are developed by the Research India's Innovation group (RI Instruments & Innovation India) which applies in the field of Materials Science, Diamond Testing, Food Safety, Bioscience, Nanoscience, Forensic, Biotech, Environmental Sciences, and more.

RI-M2R Series Raman Microspectrometer allow highly magnified visualization and Raman analysis of samples with a microscopic laser spot using Optical Microscope coupled with Fiber Raman Spectrometer

1. Fiber-Coupled
2. Direct Coupled (No Fiber Components)

Advantage:

No sample Preparation needed
Non-destructive sampling
Non- invasive measurement

Application

Raman spectral analysis
Chemical or biological research
Environmental sciences
Diamond identification
Food safety testing
Pharmaceutical and medical diagnosis
Geological exploration
Hazard detection

Software Features:

Instrument Control & Data Collection parameters are user-definable, such as Exposure time, dark correction, signal averaging, spectral smoothing, Automatic Saved Spectra. Graphics saved in .txt format and be opened in any Third-Party Software E.g. Origin, Excel and other data processing software.

Standard Models:

Model No.	Wavelength Range
RI-M2R-532-S	200- 4500 cm^{-1} (R2L532, RMP532-S/DC532-S)
RI-M2R-532-A	120 – 4500 cm^{-1} (R2L532, RMP532-A/DC532-A)
RI-M2R-532-C	Customized
RI-M2R-785-S	200- 4500 cm^{-1} (R2L785, RMP785-S)
RI-M2R-785-A	120 – 4500 cm^{-1} (R2L785, RMP785-A)
RI-M2R-785-C	Customized

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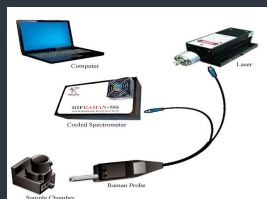
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RIFRAMAN - Fiber Optic
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RIFRAMAN - Fiber Optic
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SPECIFICATION:

Raman Spectrometer		
Design	:	Czerny Turner
Detector	:	CCD linear array
Lens	:	Detector Collecting lens (Quartz)- Optional
Spectral Range	:	120/200 – 4500 cm^{-1}
Pixels	:	Linear Array CCD 3648 Pixel
Focal Length	:	150 mm (Standard) and 200 mm Optional
TEC Cooled	:	- 35 $^{\circ}$ C (Standard), - 40 $^{\circ}$ C (Optional)
Filter	:	Order Sorting Filter
Coupling	:	0.22 NA, 600 μm Core SMA Connectors Multimode
Slit	:	Variable 0- 200/400microns (-V) or Fixed (Standard)
Optical Resolution	:	5 cm^{-1} to 14 cm^{-1} *
Signal-to-noise ratio	:	10000 : 1, (12000:1) #
A/D Resolution	:	16 Bit
Integration Time	:	10 μs – 60 secs (120 sec – Optional)
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
Computer Interfaces	:	USB 2.0**
Temperature:	:	-30 $^{\circ}$ C to +70 $^{\circ}$ C Storage & -10 $^{\circ}$ C to +50 $^{\circ}$ C Operation
Humidity	:	0%-90% non-condensing
Raman Laser R2L785		
Wavelength	:	785nm
Stability	:	1%
Power	:	200 mW (Standard), 300mW – 500mW (Optional)
Power Tunability	:	Yes
Coupling Connector	:	SMA (Standard), FC (Optional)



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Raman Laser R2L532		
Wavelength	:	532nm
Stability	:	1%
Power	:	200 mW (Standard), 300mW – 500mW (Optional)
Power Tunabilty	:	Yes
Coupling Conector	:	SMA (Standard), FC (Optional), without connector (Standrad - DC series only)
Optical Microscope Raman Probe-532 (RMP-532-A/RMP-532-S)		
Spectral Range	:	120 /200 cm-1 to 4500 cm-1
Excitation fiber	:	100 um SMA Standard and FC (Optional)
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)
Laser line bocking	:	OD 6
Objective Lens	:	5x, 10x , 20x , 50 x
Digital camera	:	2 MP Stanadard and 5 MP (Opional)
Focussing	:	Stage height movement by roller guide/focusing knobs
Illmination (Optional)- I	:	1. Built-in transmitted illuminator with continuously variable intensity control 2. Top Illumination (Optional)
Stage (Optional) - T	:	XYZ Stage
Optical Microscope Raman Probe-785 (RMP-785-A/RMP785-S))		
Spectral Range	:	120/200 cm-1 to 4500 cm-1
Excitation fiber	:	100 um SMA Standard and FC (Optional)
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)
Laser line bocking	:	OD 6
Objective Lens	:	5x, 10x , 20x , 50 x
Digital camera	:	2 MP Stanadard and 5 MP (Opional)
Focussing	:	Stage height movement by roller guide/focusing knobs
Illmination (Optional)-I	:	1. Built-in transmitted illuminator with continuously variable intensity control 2. Top Illumination (Optional)
Stage (Optional) -T	:	XYZ Stage



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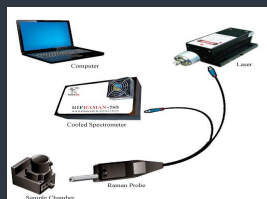
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Direct Coupled Imaging Attachment (DC532-A/DC532-S)		
Spectral Range	:	120 /200 cm-1 to 4500 cm-1
Laser Line Blocking	:	532 nm RazorEdge® ultrasteep long-pass edge filter • Laser Wavelength = 532 nm • 90 cm ⁻¹ transition • T _{avg} > 93% 535.4 – 1200 nm
		532 nm RazorEdge® ultrasteep long-pass edge filter • Laser Wavelength = 532 nm • 186 cm ⁻¹ transition • T _{avg} > 93% 538.9 – 1200 nm
Objective Lens	:	20x (Standard), 5x, 10x, 50 x, 100 X (Optional)
Digital camera	:	2 MP Stanadard and 5 MP (Opional)
Focussing	:	Precise Stage height movement
Illminatiation (Optional)- I	:	1. Built-in transmitted illuminator with continuously variable intensity control 2. Top Illumination (Optional)
Stage (Optional) - T	:	XYZ Stage

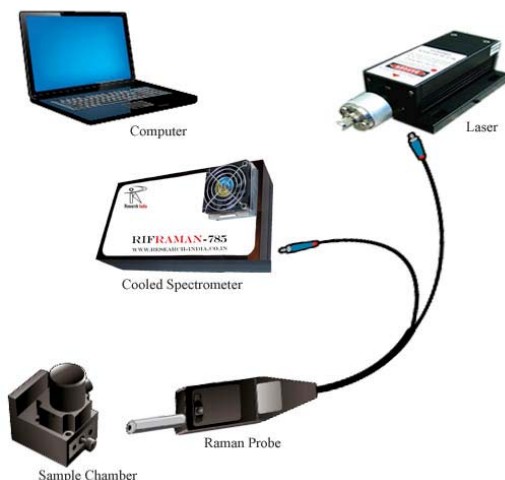
*depends on slit size and spectral range

** Comaptible to USB3.0 Ports

avg



FIBER RAMAN SPECTROMETER



Our RI-F2R Series Fiber Raman Spectrometers are developed by Research India's Innovation group (RI Instruments & Innovation India) which applies in the field of Materials Science, Diamond Testing, Food Safety, Bioscience, Nanoscience, Forensic, Biotech, Environmental Sciences and more

Advantage:

- No sample Preparation needed
- Non-destructive sampling
- Non-invasive measurement

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Standard Models:

Model No.	Wavelength Range
RI-F2R532-S	200- 4500 cm^{-1} (RL532, RPA532S)
RI-F2R532-A	120 – 4500 cm^{-1} (RL532, RPA532A)
RI-F2R532-C	Customized
RI-F2R785-S	200- 4500 cm^{-1} (RL785, RPA785S)
RI-F2R785-A	120 – 4500 cm^{-1} (RL785, RPA785A)
RI-F2R785-C	Customized

Application

- Raman spectral analysis
- Chemical or biological research
- Environmental sciences
- Diamond identification
- Food safety testing
- Pharmaceutical and medical diagnosis
- Geological exploration
- Hazard detection

Software Features:

Instrument Control & Data Collection parameters are user-definable, such as Exposure time, dark correction, signal averaging, spectral smoothing, Automatic Saved Spectra. Graphics saved in .txt format and be opened in any Third-Party Software E.g. Origin, Excel and other data processing software.

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RIFRAMAN - Fiber Optic Based Raman System, available version 532 & 785 nm



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SPECIFICATION:

Raman Spectrometer		
Design	:	Czerny Turner
Detector	:	CCD linear array
Lens	:	Detector Collecting lens (Quartz)- Optional
Spectral Range	:	120 – 4500 cm^{-1}
Pixels	:	Linear Array CCD 3648 Pixel
Focal Length	:	150 mm (Standard) and 200 mm Optional
TEC Cooled	:	- 35 $^{\circ}$ C (Standard), - 40 $^{\circ}$ C (Optional)
Filter	:	Order Sorting Filter
Fiber optic connector	:	0.22 NA, 600 μm Core SMA Connectors Multimode
Slit	:	Variable 0- 200/400microns or Fixed Slit
Optical Resolution	:	5 cm^{-1} to 14 cm^{-1} *
Signal-to-noise ratio	:	10000 : 1, (12000:1) #
A/D Resolution	:	16 Bit
Integration Time	:	1 ms – 60 secs
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
Computer Interfaces:	:	USB 2.0, USB3.0
Temperature:	:	-30 $^{\circ}$ C to +70 $^{\circ}$ C Storage & -10 $^{\circ}$ C to +50 $^{\circ}$ C Operation
Humidity	:	0%-90% non-condensing
Raman Laser RL785		
Wavelength	:	785nm
Stability	:	1%
Power	:	200 mW (Standard), 300mW – 500mW (Optional)
Power Tunability	:	Yes
Coupling Connector	:	SMA (Standard), FC (Optional)

*depends on slit size and spectral range



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Raman Laser RL532		
Wavelength	:	532nm
Stability	:	1%
Power	:	200 mW (Standard), 300mW – 500mW (Optional)
Power Tunability	:	Yes
Coupling Connector	:	SMA (Standard), FC (Optional)
Raman Probe (RPA-λ-A/RPA-λ-S) , λ- stands for wavelength		
Laser wavelength (λ)	:	532 nm or 785 nm
Spectral Range	:	120 /200 cm-1 to 4500 cm-1
Excitation fiber	:	100 um optical fiber Standard
Collection Fiber	:	200 um optical fiber (Standard) and 7 cores fiber :200 um with the 1 core of 600um Round to Linear optical fiber (Optional)
Coupling Connector	:	SMA (standard) and FC (Optional)
Laser line blocking	:	OD 6
Objective Lens	:	20x (Standard) and 5x, 10x , 50 x (Optional)
Raman Probe (RPI-λ-A /RPI-λ-S) , λ- stands for wavelength -Optional		
Laser wavelength (λ)	:	532 nm or 785 nm
Spectral Range	:	120/200 cm-1 to 4500 cm-1
Probe Tip	:	38 mm
Probe Material	:	2A12 after Blackening; Stainless steel detector tip
Excitation fiber	:	100 um optical fiber Standard
Collection Fiber	:	200 um optical fiber (Standard) and 7 cores fiber :200 um with the 1 core of 600um Round to Linear optical fiber (Optional)
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 thinfilm samples
-SSH2	:	Advance Raman Probe Holder for Powder and thinfilm samples with Focssing knobs and XYZ Stage ot hold the sample
Liquid Sample Holder (Optional)		
-LSH	:	Raman Probe Holder for Liquid Samples, Holder size 10 mm (Standard) and Customizable (Optional)
Microscope Upgrade (Optional) - MU		



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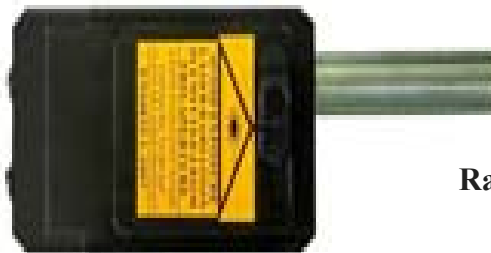
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Raman probe : RPA-λ



Raman Probe : RPI-λ



Microscope Upgrade : MU



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