



Spectro - 3320

Dual Band Raman Spectro



EPCC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net



In many cases in lab is uncertain of wavelengths better for their application, Spectro3320 dual-band Raman spectrometer integrate two wavelengths laser sources to detect small sample. It requires no contact, no treatment to make an undestructive detect. This instrument has advantages of high performance-to-ratio, smart size can detect liquids, including fabrics, biology, alcoholics, crystals etc

Spectro3320 built-in 532nm, 633nm, 785nm Raman spectrometers, all of them employs cooled high sensitivity Raman signal enhanced CCD, high efficient Raman probe with a laser power up to 600mW narrow linewidth lasers, combined with high reliable optical design, circuit design, structure design, detect result is very stable, and super SNR.

Spectro3320 built in 1064 Raman, employs ultra high cooled semi-conductor lasers, 2nd class cooled ultra high sensitivity InGaAs linear array CCD. As a result, with high performance, high sensitivity can fit to scientific research, medical instrument industry.

Features

- Dual bands 532, 633, 785, 1064nm (optional dual wavelengths combination);
- High sensitivity, SNR>3000:1
- High Stability
- Hamamatscu CCD, excellent performance;
- High performance spectrometer
- USB2.0 connect to PC

3320 -785+1064	785+1064	500	200 ~ 3500	3~8
		500	200 ~ 2600	7 ~ 12
3320 -532+633	532+633	100	200 ~ 3700	5~7
		50	200 ~ 3500	3 ~ 6
3320 -532+1064	532+1064	100	200 ~ 3700	5 ~ 7
		500	200 ~ 2600	7 ~ 12
3320 -532+785	532+785	100	200 ~ 3700	5~7
		500	200 ~ 3500	3~8
3320 -633+1064	633+1064	50	200 ~ 3500	3~6
		500	200 ~ 2600	7 ~ 12



>> Specification

EXCITATION LIGHT

Power Stability $\sigma/\mu < \pm 0.2\%$

DETECTOR

Cooled Down To -10 °C

Detector Type 785:200-1100 nm 1064: 900-1700 nm **Detector Model** 785:High sensitivity Cooled CCD

1064: High sensitivity 512 pixels InGaAs detector

RAMAN INSTRUMENT

Interfaces WIFI, 4G (optional)

Integration Time4ms - 120sOperation SystemAndroid

Excitation Wavelength 785nm±0.5nm 1064±0.5nm

Power Voltage AC 220V(+/-5%)

EXCITATION LIGHT

Spectral Range 785:250-2700, 200-3500, 200-4200 optional 1064: 200-2600

SNR >3000:1 **Weight** 27Kg

Reliability Spectral Stability $\sigma/\mu < 0.5\%$ (COT 8 hours)

Temp Stability shift ≤ 1 cm-1 (10-40°C) Spectral intensity change(in 5 \sim 40°C)

<±5%

Size 800*500*300mm

Dynamic Range 785: 50000 : 1 1064:80000:1

Interface USB2.0

OPTICAL PARAMETER

Working Temperature -10~40°C Working Humidity <95%

RAMAN PROBE

Rayleigh Scattering Resistance Working Distance 6 mm OD OD>8 NA 0.3

Aperture 7mm



HPLC Servicing, Validation, Trainings and Preventive Maintenance:

HPLC Servicing: HPLC Servicing: We have team of service engineers who can attend to any make of HPLC promptly @the most

affordable cost.

Trainings :We also take up preventive Maintenace to reduce downtime of HPLC's Trainings.

AMC's/CMC :AMC's/CMC :We offer user training both in-House and at customer sites on HPLC principles, operations, trouble-

shooting.

Validations :Validations :We have protocols for carrying out periodic Validations as per GLP/GMP/USFDA norms.

Instruments: Unstruments: We offer instruments/Renting Services Modules like pumps, detector etc. on Rent.





About Analytical Technologies

Analytical Technologies is synonymous for offering technologies for doing analysis and is the Fastest Growing Global Brand having presence in at least 96 countries across the global. Analytical Technologies Limited is an ISO:9001 Certified Company engaged in Designing, Manufaturing, Marketing & providing Services for the Analytical, Chromatography, Spectroscopy, Bio Technology, Bio Medical, Clinical Diagnostics, Material Science & General Laboratory Instrumentation. Analytical Technologies, India has across the Country operations with at least 4 Regional Offices, 6 Branch Offices & Service Centers. Distributors & Channel partners worldwide.

Our Products & Technologies



UV/VIS Spectro 2080+ Double Beam



Infra FTIR



Optima Gas Chromatograph 3007



Optima Gas Chromatograph 2979 Plus



Flash Chromatograph



Atomic Absorption Spectrophotometer



Liquid Partical Counter



Optical Emission Spectrophotometer



DSC/TGA



Semi Auto Bio Chemistry Analyzer



HEMA 2062 Hematology Analyzer



Micro Plate Reader/Washer



URINOVA 2800 Urine Analyzer



Total Organic Carbon 3800



Fully Automated CLIA



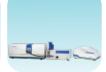
NOVA-2100 Chemistry Analyzer



PCR/Gradient PCR/ RTPCR



TOC Analyzer



Laser Particle Size Analyzer



Ion Chromatograph

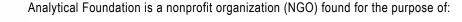


Water purification system

Regulatory compliances



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- 2. Improving quality of life by offering YOGA Training courses, Work shops/Seminars etc.
- 3. ANALYTICAL FOUNDATION aims to DETOXIFY human minds, souls and body by means of yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.

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