

# Spectro - 3320

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## Dual Band Raman Spectro



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**Analytical Technologies Limited**

An ISO 9001 Certified Company

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- 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

<b>3320</b>	<b>-785+1064</b>	<b>785+1064</b>	<b>500</b>	<b>200 ~ 3500</b>	<b>3 ~ 8</b>
			500	200 ~ 2600	7 ~ 12
<b>3320</b>	<b>-532+633</b>	532+633	100	200 ~ 3700	5 ~ 7
			50	200 ~ 3500	3 ~ 6
<b>3320</b>	<b>-532+1064</b>	532+1064	100	200 ~ 3700	5 ~ 7
			500	200 ~ 2600	7 ~ 12
<b>3320</b>	<b>-532+785</b>	532+785	100	200 ~ 3700	5 ~ 7
			500	200 ~ 3500	3 ~ 8
<b>3320</b>	<b>-633+1064</b>	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**  $-10\text{ }^{\circ}\text{C}$

**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 Time** 4ms - 120s

**Operation System** Android

**Excitation Wavelength** 785nm $\pm$ 0.5nm 1064 $\pm$ 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  $\leq 1\text{ cm}^{-1}$  (10-40 $^{\circ}\text{C}$ )

Spectral intensity change(in 5 ~ 40 $^{\circ}\text{C}$ )

< $\pm 5\%$

**Size** 800\*500\*300mm

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

**Interface** USB2.0

### OPTICAL PARAMETER

**Working Temperature**  $-10\sim 40^{\circ}\text{C}$

**Working Humidity** < 95%

### RAMAN PROBE

**Rayleigh Scattering Resistance** Working Distance 6 mm OD OD>8 NA 0.3  
 Aperture 7mm

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3. ANALYTICAL FOUNDATION aims to DETOXYFY human minds,souls and body by means of yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.

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