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Четырехдиапазонная рамановская визуализация Quadriband Raman Imaging



The ATR8800 series scientific grade Raman microscope integrates two lasers, and combines the advantages of the microscope and the Raman spectrometer. Optosky self-developed Raman imaging microscope realizes "seeing is testing", say visualize precision positioning the micro-area of the sample at the microscope platform, so that the observer can collect the Raman signals from different surface of the sample, and meanwhile displaying the image of the detected areas on the computer.

The full series of ATR 8800 can be fully automatic focus, automatic scanning, simple operation, high throughput tests, uniformity scanning, etc., no need to wait and can be obtained highly reliable scanning imaging of Raman database.

The ATR8800 is equipped with spectrometers with different focal lengths to meet the requirements of different resolutions. The ATR8800 is also equipped with objectives especially designed for Raman systems, which brings laser spots to the limit of diffraction, and then displays focus information accurately and intuitively on the computer through 5-mega cameras. Raman signal collected focal plane could higher or lower than actual one have been solved, so that it improve Raman signal as a result.

The ATR8800 perfectly solves the loss of the camera imaging time path, and realizes the separation of camera imaging from Raman signal collection, so as to obtain the best signal intensity. At the same time, the ATR8800 uses high-performance Raman system.

Intuitive software provides functions of mapping and images splicing, visualize spectral and imaging information simultaneously at fast speed than ever,

Simple Operation gives user minimum preparation and research results.

RAMAN SPECTROMETER SYSTEM PARAMETERS

Power Voltage	532 nm : 100mW 633 nm : 80mW 638 nm : 80mW 785 nm : 350mW 1064nm : 500mW
Microscope Camera System	5-mega camera Standard configuration : 4X, 10X, 20X ; Optional configuration : 50X, 100X
Focus Type	Confocal

RAMAN SPECTROMETER OPTICAL PARAMETERS

Optical Path	C-T optical path
Focal Length	350mm, 510mm, 760mm Optional

RAMAN SPECTROMETER LASER PARAMETERS

Excitation Wavelength	532,633,638,785,1064nm Optional
Power Stability	$\sigma/\mu < \pm 0.2\%$
Laser Spot Diameter	$> 1\mu\text{m}$

X,Y-AXIS ELECTRONIC CONTROLLED PLATFORM

Moving Range	50 X 50 mm
Positioning Accuracy	$\leq \pm 0.2 \mu\text{m}$
Scan Speed	20 mm/s

Z-AXIS (AUTO-FOCUS)

Focus Accuracy	1 μm
Max Range	20 mm
Focus Speed	No more than 10 s

PHYSICAL PARAMETERS

Dimension	ATR8800-FL210 : 823(L)×500(W)×643(H) ATR8800-FL350 : 905(L)×500(W)×643(H) ATR8800-FL510 : 1009(L)×500(W)×643(H) ATR8800-FL760 : 1320(L)×500(W)×643(H)
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RAMAN SPECTROMETER SYSTEM PARAMETERS

Weight

ATR8800-FL210 : 53 Kg ATR8800-FL350 : 59 Kg
ATR8800-FL510 : 63 Kg ATR8800-FL760 : 78 Kg

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