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Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Брянск (4832)59-03-52
Владивосток (423)249-28-31
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Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
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Красноярск (391)204-63-61
Курск (4712)77-13-04
Липецк (4742)52-20-81

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Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
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Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16

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Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
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Ставрополь (8652)20-65-13

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Тверь (4822)63-31-35
Томск (3822)98-41-53
Тула (4872)74-02-29
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
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Картирование миниатюрного рамановского микроскопа

Miniature Raman Microscope Mapping



- Optosky ATR8300MP miniature Raman microscope integrates microscope and Raman spectrometer. It features 2D Raman mapping and automated focusing. It becomes possible to see macro or micro areas of samples on the computer screen at just a single mouse click. When accurate positioning is visualized, the observer can detect Raman signals under various surface conditions, and synchronized Mapping can be displayed intuitively on the screen at one click operation. As a result, it provides great convenience to detect micro or macro areas of samples. Combine unique patented conjugate focusing(true confocal) system with accurate image processing algorithm, and it enables a very small sample area to be analyzed, as well as it requires minimal operator training and maintenance, yet resulting in uniform result not just spectra.
- ATR8300MP is configured with a tailor-made objective, and a laser spot on the sample becomes very close to the diffraction limit, then focal information can be displayed accurately and intuitively on the screen with a 3-megapixel camera. This configuration improves Raman spectral quality for overcoming the limitations of Raman systems where the focal plane for Raman signal collection is slightly above or below the image plane.
- ATR8300 works stable with no moving components of optical path switch, hence it avoids loss of the optical path while images formed, and it gains an optimized signal from separating images formed from Raman signal collection.
- Optosky is the only manufacturer in the world that provides a miniature Raman microscope mapping, it can easily acquire Raman spectrum in different locations, check if the material nature is uniform or not, and Raman image can be formed on the screen.
- Single & Dual-band Available in ATR8300BS Manual-Focus, ATR8300AF Auto-Focus, and ATR8300MP Mapping

RAMAN SPECTROMETER SYSTEM PARAMETERS

Interface	USB2.0
Microscope Camera System	3-megapixel /5-megapixel camera
Focus Type	True confocal

RAMAN SPECTROMETER RELIBILITY

Spectral Stability	$\sigma/\mu < 0.5\%$ (COT 8 hours)
Temperature Stability	Spectral shift $\leq 1 \text{ cm}^{-1}$ (10-40 °C)

RAMAN SPECTROMETER OPTICAL PARAMETERS

Resolution	4 cm^{-1}
SNR	>6000:1

RAMAN SPECTROMETER DETECTOR

Detector Model	Hamamatsu CCD
Dynamic Range	13000:1
Pixel Size	14 μm * 50 μm

RAMAN SPECTROMETER LASER PARAMETERS

Excitation Wavelength	785nm(532, 633, 830, 1064nm for optional)
Laser Linewidth	0.08 nm
Laser Output	>550mW (software adjustable)
Power Stability	$\sigma/\mu < \pm 0.2\%$
Laser Spot Diameter	>1 μm

X,Y-AXIS ELECTRONIC CONTROLLED PLATFORM

Moving Range	5 X 5 cm
Scan Speed	Less than 10 s

Z-AXIS (AUTO-FOCUS)

Focus Accuracy	≤ ±0.2μm
Max Range	20mm

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