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Астана (7172)727-132
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
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06

Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
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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Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
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Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13

Сургут (3462)77-98-35
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
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
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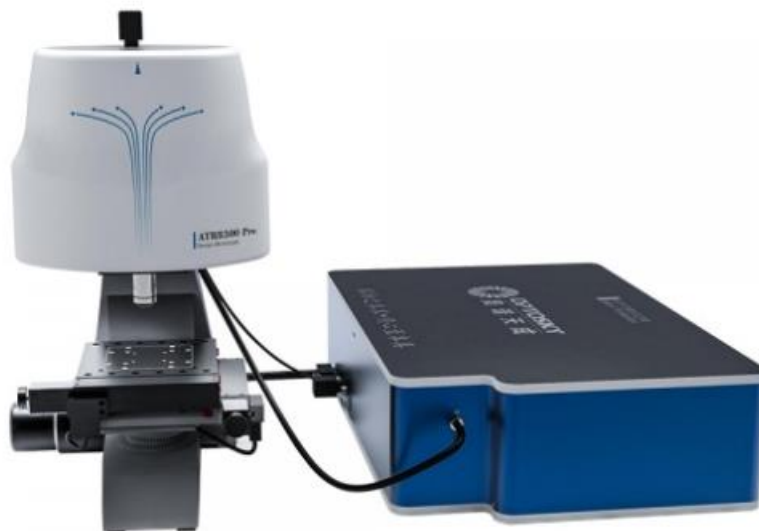
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Лучшая визуализирующая микроскопия Рамана best raman imaging microscopy



Optosky provides miniature Raman microscope integrating benefits of microscope and Raman spectrometer into one instrument. It becomes possible to see micro areas of samples on the computer screen with just a single mouse click. When the sample is visualized in accurate position, the observer scan Raman spectrum under various surface conditions, and synchronous Mapping can be displayed intuitively on the screen in a click. As a result, it takes great convenience to detect micro areas of samples. Combine unique patented conjugate focusing(true confocal) system with accurate image processing algorithm, and it enables a very small sample areas to be analyzed, as well as it requires minimal operator training and maintenance, yet resulting in uniform result not just spectrum.

ATR8300Pro is equipped with tailor-made objective, and laser spot on the sample becomes very close to diffraction limit, then focal information can be displayed in accurate and intuitive on the screen with 3-megapixel/5-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 imaging plane.

ATR8300Pro works very stable with no moving components of optical path switch, hence it avoids loss off optical path while imaging being formed, and it gains optimized signal for separating imaging formed from Raman signal collection.

Table 1 ATR8300 Pro Product Selection

Models	Focus Length	Excitation Wavelength/nm	Excitation Power/mW	Max. Wavenumber Range	Min. Resolution/cm-1
ATR8300Pro-FL210	210mm	532	100	200-3500	2.2
		633/638	80	200-3300	2.2
		785	350	200-3500	2.5
		1064	500	200-2500	6.2
ATR8300Pro-FL350	350mm	532	100	200-3700	1.4
		633/638	80	200-3500	1.4
		785	350	200-3500	2.1
		1064	500	200-2500	5.1
ATR8300Pro-FL510	510mm	532	100	200-3700	0.9
		633/638	80	200-3500	0.9
		785	350	200-3500	1.4
		1064	500	200-2500	3.6
ATR8300Pro-FL760	760mm	532	100	200-3700	0.5
		633/638	80	200-3500	0.5
		785	350	200-3500	1.0
		1064	500	200-2500	2.7

ATR8300Pro-LT: Cooled down to -30°C, ultra-long integration time (Max. Time can reach 1.3h).

ATR8300Pro-SCM : Te-cooled SCMOS detector.

ATR8300Pro-BS : Basic type.

ATR8300Pro-AF : Auto-focus.

ATR8300Pro-MP : Mapping, and auto-focus.

OPTICAL PARAMETER

Laser Wavelength	785nm (+/-0.5nm)
Wavelength Range	250-2700, 200-3500, 200-4300 cm-1 (available in customer wavelengths range down to 50 cm-1)
SNR	>6000:1

DETECTOR

Detector Type	TE cooled, semiconductor laser, 2048*64 pixel, back-
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thinned, IR enhanced CCD InGaAS cooled for 1064nm

RAMAN INSTRUMENT

Thermal Stability	Spectral shift ≤ 1 cm-1 (10-40 °C)
Pixel Size	14 μm * 14 μm
Microscope Camera	3-megapixel /5-megapixel camera
Dynamic Range	13000:1
Focusing	≤ ±0.2μm and less than 10s

RAMAN SPECTROMETER SYSTEM PARAMETERS

Export Report	USB2.0
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RAMAN SPECTROMETER RELIBILITY

Spectral Stability	σ/μ < 0.5% (COT 8 hours)
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RAMAN SPECTROMETER LASER PARAMETERS

Laser Linewidth	0.08 nm
Laser Output	Max. 500mW (Max. 100mW for 532nm)
Laser Spot Diameter	>1μm

X,Y-AXIS ELECTRONIC CONTROLLED PLATFORM

Moving Range	5 X 5 cm
Moving Resolution	0.1μm
Positioning Accuracy	1μm
Scan Speed	20mm/s

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