Agility™ Raman Analyzer

Dual-band Transportable Benchtop Raman Instrument

Applications:

- In-situ chemical analysis
- In-line monitoring
- Biomedical research
- Pharmaceuticals
- Material science
- Forensic labs
- Semiconductors
- Geological
- Fluorescence suppression using 1064 nm Raman

BaySpec's ***Agility***™ transportable benchtop Raman instrument delivers high performance with extreme versatility in a ruggedized and battery-operated form factor. With less than 12 in. x 15 in. x 6.6 in. and 16 lbs, Agility is a high-performance benchtop, yet completely transportable Raman Analyzer. It is available in single-wavelength (532, 785, or 1064 nm) or dual-band (any two of 532, 785 and 1064 nm) versions. Its quick-change sampling options accommodate almost all measurements needs without sample preparation.

Key Features

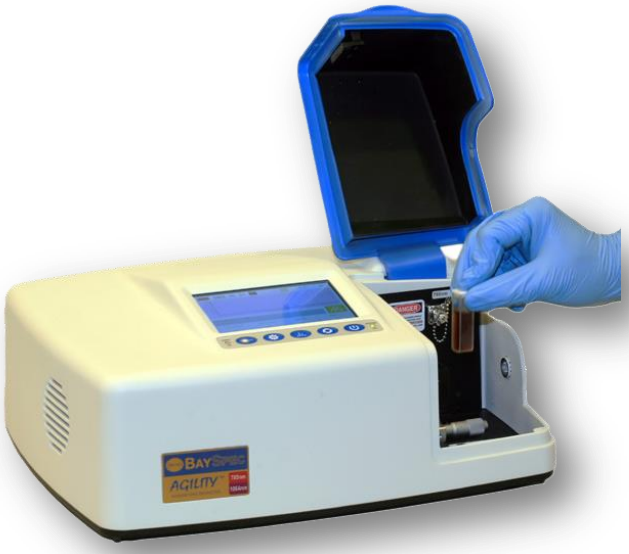
- Transportable, battery-powered system enables chemical analysis on the field.
- The most versatile sampling options for vastly different sample conditions.
- Dispersive 1064 nm Raman delivers best signal for samples with photoilluminance.
- Single-wavelength or dual-wavelength. Dual-band configuration expands analytical power significantly.
- Laser output power is continuously adjustable by the software.
- ***Agility***™ has no moving parts and has its sensitive optical engine shock-resistant mounted, resulting in a ruggedized instrument that has withstood the rigors of field testing.
- ***Agility***™ is operated by BaySpec's Agile 20/20 software that has an intuitive, streamlined user interface. It can verify and identify substances automatically with BaySpec's, user-built or third-party spectral libraries.

Liquid-vial insert

Solid sample insert

Pill holder

Fiber probe adapter



Agility™ Raman analyzer

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BAYSPEC
Pervasive Spectroscopy

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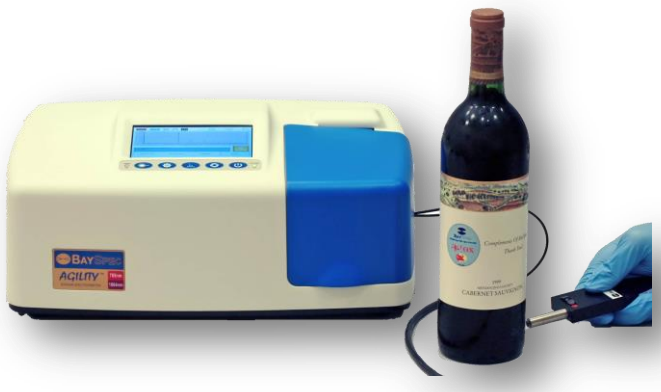
Dual-band Transportable Benchtop Raman Instrument

	Specification				
	Single-Wavelength			Dual-Band	
	Agility-532	**Agility-785**	**Agility-1064**	**Agility-532/1064**	**Agility-785/1064**
OPTICAL					
Excitation Wavelength*	532 nm	785 nm	1064 nm	532 and 1064 nm	785 and 1064 nm
Spectral Range*	200–3500 cm^{-1}	100-2300 cm^{-1}	100-2300 cm^{-1}	200–3500 cm^{-1} for 532 nm; 100-2300 cm^{-1} for 785 and 1064 nm	
Resolution (FWHM)	9-12 cm^{-1}	6-9 cm^{-1}	12-17 cm^{-1}	9–12 cm^{-1} for 532 nm; 6-9 cm^{-1} for 785 nm; 12-17 cm^{-1} for 1064 nm	
Laser Power	50 mW max.	0-450 mW Adjustable	0-450 mW Adjustable	50 mW (max.) for 532 nm; 0-450 mW for 785 and 1064 nm	
Spectrograph	f/2; Transmission *Volume Phase Grating (VPG)*®				
Integration Time	5 ms-600 s	5 ms-600 s	1 ms-20 s	5 ms-600 s for 532 and 785 nm; 1 ms-20 s for 1064 nm	
Wavelength Calibration	Automatic via software				
Detector Array	2048 px CCD	2048 px CCD	256 px InGaAs	2048 px CCD for 532 and 785 nm; 256 px InGaAs for 1064 nm	
Detector cooling	2 stage TE (cooling time < 1 min)				
PHYSICAL					
Dimensions (mm; in)	305 (d) x 380 (w) x 168 (h); 12 x 15 x 6.6				
Weight	14 lb			16 lb	
Operating Ranges	0 to 45°C; 0 to 95% RH				
ELECTRICAL					
A/D Converter	16 bit				
Power Consumption	< 25 W			< 30 W	
Battery	Lithium ion, 4 hr battery life, 6 hr charging time				
SAMPLING OPTIONS					
Fiber Probe	Coaxial, AR coated, filtered				
Liquid Sample Holder	Holds vials, tubes, cuvettes				
Pill Holder	Solid or liquid pills and capsules				
Solid Sample Holder	Upright or inverted options				
COMPUTER					
Operating System	Windows-based (32 or 64 bit)				
System Control	Onboard touchscreen or external PC				
GUI	Agile 20/20 Windows XP/Vista/7				
Data Ports	USB 2.0				
Security	Tiered password structure (3 levels), event logging and reporting				
Internal Storage	16 GB				
Wireless Connectivity	WiFi (optional)				
Spectral Libraries	BaySpec Factory Library; User-defined; 3rd party options				

* Contact us for custom laser wavelengths and spectral ranges.



Agility™ with fiber probe option

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