

RAMAN

Portable Raman Spectrometer RMP-510



JASCO's new RMP-510 has been developed to meet the needs of Material Science, Manufacturing and Biochemistry by combining the flexibility of a fiber optic probe with a portable Raman Microspectrometer.

The RMP-510 is easy to use, offers a broad spectral range, and comes standard with 2.0 cm^{-1} resolution. An additional automated grating offers high resolution to 0.5 cm^{-1} . Image capture and a manual stage are included for Raman Microscopic Analysis. Fiber optic cables allow the probe to be removed from the stage for analyzing larger samples.

Spectra Manager Software simplifies data collection, analysis, and daily validation. Sadtler's Know It All™ software is included for library searching and sample database creation.

Installation and training are included.



SPECIFICATIONS

RMP-510		
Monochromator	Monochromator/Spectrograph	Czerny-Turner type monochromator/f=200 mm
	Wavelength Control	High accuracy rotary encoder Direct Drive
	Wavelength Range (Raman shift)	100-8000 cm^{-1}
	Resolution (cm^{-1} /pixel)	2.0 (standard)
	Grating (standard)	900 gr/mm
	Optional gratings	2400, 1800, 1200, 600, 400, 300, 150 gr/mm (automated selection)
	Number of gratings	Maximum 4 gratings on automated carousel
Detector	Element	1650 x 200 (Andor BR246D CCD)
	Cooling method	4-stage Peltier (-60° C)
Light Source	Laser wavelength	532 nm
	Laser power	20 mW
	Attenuator	Manual: OPEN, OD4, OD1, OD0.3, CLOSED
Fiber Probe	Image magnification	Long Distance Objective: 20X (Option: 50X, 100X)
	Beam Diameter	20 μm (20X objective)
	Fiber	Single core, 1 m (Option: 3 m, 5 m, 10 m)
	Sample observation	CCD video camera
	Observation magnification	250X (with 15 inch monitor, 20X objective, resolution 1024 x 768)
Probe Stage	XYZ manual stage	X, Y +/- 4 mm, Z +/- 1.5 mm
	Stage size	50 mm diameter
	Laser safety	Class 1; interlock system
Software	Operating System	Windows 7 Professional (32-bit only)
	Standard software functions	Spectrum Measurement/analysis, Jasco Canvas, Validation
	Database Search function	Sadtler Know-It-All search (Spectrum search, structure search, User data base, 600 compound standard data base, Analyzelt (spectral interpretation))
	Optional program	Interval Measurement Analysis
Dimension/Weight		500 (W) x 360 (D) x 290 (H), 30 kg
Power Requirements		AC 100V +/- 10V, 200VA

● Specifications are subject to change without notice.



JASCO INTERNATIONAL CO., LTD.

4-21, Sennin-cho 2-chome, Hachioji, Tokyo 193-0835, Japan
Tel: +81-42-666-1322 Fax: +81-42-665-6512 <http://www.jascoint.co.jp/english/index.html>
Australia, China, Hong Kong, India, Indonesia, Korea, Malaysia, New Zealand,
Pakistan, Philippines, Russia, Singapore, Taiwan, Thailand

JASCO INCORPORATED

28600 Mary's Court, Easton, MD 21601, U.S.A
Tel: +1-800-333-5272 +1-410-822-1220 Fax: +1-410-822-7526 <http://www.jascoinc.com>
Canada, Costa Rica, Mexico, Puerto Rico, Argentina, Brazil, Chile, Colombia, Paraguay, Peru,
Uruguay, Guatemala

JASCO EUROPE s.r.l.

Via Luigi Cadorna 1, 23894 Cremella (Lc), Italy
Tel: +39-039-9215811 Fax: +39-039-9215835 <http://www.jasco-europe.com>
JASCO Deutschland www.jasco.de, JASCO UK www.jasco.co.uk,
JASCO France www.jascofrance.fr, JASCO Benelux www.jasco.nl,
JASCO Spain www.jasco-spain.com, JASCO Scandinavia www.jascoscandinavia.se
Austria, Finland, Greece, Hungary, Poland, Portugal, Romania, Switzerland, Algeria, Cyprus,
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For more information, please contact: