

Lightnovo mini Raman spectrometer 2026



mRs Lab body

Name	Laser power on sample	Spectral slit sizes	Signal-to-noise ratio*	Spectral Range	Raman shift	Spectral resolution	Laser spectral linewidth	Grating	Physical dimensions	Weight
mRs 660 Full Range Power	10-80mW	20, 35, 50µm	500:1	679 - 882nm	270 - 3700cm ⁻¹	0.36nm/px, 9-13cm ⁻¹ / 11-15cm ⁻¹ / 13-17cm ⁻¹ (for slit sizes 20/35/50µm)	0.5nm	1500 l/mm	109x53x47 (LxWxH)	250g
mRs 660 Full Range SERS	1-15mW	20, 35, 50µm	100:1	679 - 882nm	270 - 3700cm ⁻¹	0.36nm/px, 9-13cm ⁻¹ / 11-15cm ⁻¹ / 13-17cm ⁻¹ (for slit sizes 20/35/50µm)	0.5nm	1500 l/mm	109x53x47 (LxWxH)	250g
mRs 785 Standard	5-50mW	20, 35, 50µm	500:1	808-982nm	300 - 3100cm ⁻¹	0.25nm/px, 6-9cm ⁻¹ / 7-10cm ⁻¹ / 9-13cm ⁻¹ (for slit sizes 20/35/50µm)	0.1nm	1500 l/mm	109x53x47 (LxWxH)	250g
mRs 785 SERS	1-15mW	20, 35, 50µm	100:1	808-982nm	300 - 3100cm ⁻¹	0.25nm/px, 6-9cm ⁻¹ / 7-10cm ⁻¹ / 9-13cm ⁻¹ (for slit sizes 20/35/50µm)	0.1nm	1500 l/mm	109x53x47 (LxWxH)	250g
mRs 785/660 Standard	785: 5-50mW 660: 5-45mW	20, 35, 50µm	785: 500:1 665: 600:1	808-982nm	785: 300 - 2500cm ⁻¹ 660: 2700-3700cm ⁻¹	785: 0.25nm/px, 6-9cm ⁻¹ / 7-10cm ⁻¹ / 9-13cm ⁻¹ 660: 0.36nm/px, 12-15cm ⁻¹ / 13-17cm ⁻¹ / 15-18cm ⁻¹ (for slit sizes 20/35/50µm)	785: 0.1nm 660: 0.5nm	1500 l/mm	109x53x47 (LxWxH)	250g

OEM solutions

Name	Laser power on sample	Spectral slit sizes	Signal-to-noise ratio*	Spectral Range	Raman shift	Spectral resolution	Laser spectral linewidth	Grating	Physical dimensions	Weight
mRs OEM F **	according to base model	20, 35, 50µm	according to base model	according to base model	according to base model	according to base model	according to base model	1500 l/mm	50x20x12 (LxWxH)	250g
mRs OEM spectrograph 660	no laser	20, 35, 50µm	N/A	according to base model	270 - 3700cm ⁻¹	0.36nm/px, 9-13cm ⁻¹ / 11-15cm ⁻¹ / 13-17cm ⁻¹ (for slit sizes 20/35/50µm)	NA	1500 l/mm	50x20x12 (LxWxH)	30g
mRs OEM spectrograph 785	no laser	20, 35, 50µm	N/A	according to base model	300 - 3100cm ⁻¹	0.25nm/px, 6-9cm ⁻¹ / 7-10cm ⁻¹ / 9-13cm ⁻¹ (for slit sizes 20/35/50µm)	NA	1500 l/mm	50x20x12 (LxWxH)	30g

mRs Operator body

Name	Laser power on sample	Spectral slit sizes	Signal-to-noise ratio*	Spectral Range	Raman shift	Spectral resolution	Laser spectral linewidth	Grating	Physical dimensions	Weight
mRs 660 Operator	5-50mW	35µm	500:1	679 - 882nm	250 - 3700cm ⁻¹	11-15cm ⁻¹	13-17cm ⁻¹	1500 l/mm	109x53x47 (LxWxH)	250g
mRs 785 Operator	10-100mW	35µm	1000:1	808-982nm	300 - 3100cm ⁻¹	7-10cm ⁻¹	9-12cm ⁻¹	1500 l/mm	109x53x47 (LxWxH)	250g

*determined as peak signal-to-noise ratio of polystyrene spectrum at 1002cm⁻¹ at max. laser power at exposure 1 second

** Full set with ANY laser and electronics