Lightnovo RG PRO spectrometer 2026

RGs PRO

Name	Laser power on sample	Laser power stability on sample**	Spectral slit sizes	Signal-to-noise ratio*	Spectral Range	Raman shift	Spectral resolution	Laser spectral linewidth	Grating	Physical dimensions
Standard										
RGs PRO 532	10-100mW	0.05%	20, 35, 50µm	1200:1	533 - 658nm	38 - 3600cm-1	0.1nm/px, 3-5cm-1 / 4-6cm-1 / 5-7cm-1 for slit sizes 20/35/50µm	0.07nm, 1.5cm-1	1800 l/mm	350x110x61 (LxWxH)
RGs PRO 785	5-95mW	0.05%	20, 35, 50µm	1000:1	787 - 982nm	25 - 2500cm-1	0.15nm/px, 2-4cm-1 / 3-5cm-1 / 4-6cm-1 for slit sizes 20/35/50µm	0.05nm, 0.7cm-1	1200 l/mm	350x110x61 (LxWxH)
RGs PRO 830	5-70mW	0.05%	20, 35, 50µm	900:1	833 - 1047nm	40 - 2400cm-1	0.17nm/px, 2-4cm-1 / 3-5cm-1 / 4-6cm-1 for slit sizes 20/35/50µm	0.05nm, 0.7cm-1	1100 l/mm	350x110x61 (LxWxH)
With LPR customisation										
RGs PRO 532 LPR	0.01-90mW	0.05%	20, 35, 50µm	1000:1	533 - 658nm	38 - 3600cm-1	0.1nm/px, 3-5cm-1 / 4-6cm-1 / 5-7cm-1 for slit sizes 20/35/50µm	0.07nm, 1.5cm-1	1800 l/mm	350x110x61 (LxWxH)
RGs PRO 785 LPR	0.01-80mW	0.05%	20, 35, 50µm	800:1	787 - 982nm	70 - 2500cm-1	0.15nm/px, 2-4cm-1 / 3-5cm-1 / 4-6cm-1 for slit sizes 20/35/50µm	0.05nm, 0.7cm-1	1200 l/mm	350x110x61 (LxWxH)
RGs PRO 830 LPR	0.01-65mW	0.05%	20, 35, 50µm	800:1	833 - 1047nm	40 - 2400cm-1	0.17nm/px, 2-4cm-1 / 3-5cm-1 / 4-6cm-1 for slit sizes 20/35/50µm	0.05nm, 0.7cm-1	1100 l/mm	350x110x61 (LxWxH)
With Power customisation										
RGs PRO 785 Power	5-500mW	0.05%	20, 35, 50µm	3000:1	787 - 982nm	70 - 2500cm-1	0.15nm/px, 2-4cm-1 / 3-5cm-1 / 4-6cm-1 for slit sizes 20/35/50µm	0.05nm, 0.7cm-1	1200 l/mm	350x110x61 (LxWxH)
RGs PRO 830 Power	10-500mW	0.05%	20, 35, 50µm	2500:1	833 - 1047nm	40 - 2400cm-1	0.17nm/px, 2-4cm-1 / 3-5cm-1 / 4-6cm-1 for slit sizes 20/35/50µm	0.05nm, 0.7cm-1	1100 l/mm	350x110x61 (LxWxH)
With Power and LPR customisation										
RGs PRO 785 Power LPR	0.01-500mW	0.05%	20, 35, 50µm	2500:1	787 - 982nm	70 - 2500cm-1	0.15nm/px, 2-4cm-1 / 3-5cm-1 / 4-6cm-1 for slit sizes 20/35/50µm	0.05nm, 0.7cm-1	1200 l/mm	350x110x61 (LxWxH)
RGs PRO 830 Power LPR	0.1-400mW	0.05%	20, 35, 50µm	2000:1	833 - 1047nm	40 - 2400cm-1	0.17nm/px, 2-4cm-1 / 3-5cm-1 / 4-6cm-1 for slit sizes 20/35/50µm	0.05nm, 0.7cm-1	1100 l/mm	350x110x61 (LxWxH)
With HR customisation										
RGs PRO 532 HR	10-100mW	0.05%	20, 35, 50µm	800:1	533 - 600nm	38 - 2040cm-1	0.05nm/px, 1.5-3cm-1 / 2-4cm-1 / 2.5-3.5cm-1 for slit sizes 20/35/50µm	0.07nm, 1.5cm-1	2800 l/mm	350x110x61 (LxWxH)
With HR and LPR customisation										

RGs PRO 532 HR LPR	0.01-90mW	0.05%	20, 35, 50µm	600:1	533 - 600nm	38 - 2040cm-1	0.05nm/px, 1.5-3cm-1 / 2-4cm-1 / 2.5-3.5cm-1 for slit sizes 20/35/50µm	0.07nm, 1.5cm-1	2800 l/mm	350x110x61 (LxWxH)

* determined as peak signal-to-noise ratio of polystyrene spectrµm at 1002cm-1 at max. laser power at exposure 1 second, slit 35µm
** variation during 8 hours