Lightnovo RG PRO spectrometer 2026

RGs PRO

Name	Laser power on sample	Max. laser power can vary in the range:	Laser power stability on sample (variation during 8 hours)	Spectral slit sizes	Signal-to-noise ratio* (deternimed as peak signal-to-noise ratio of polystyrene spectrum at $1002cm^{-1}$ at max. laser power at exposure 1 second, slit 35um)	Spectral Range	Raman shift	Spectral resolution	Laser spectral linewidth	Grating	Physical dimensions
Standard											
RGs PRO 785	5-95mW	85-100 mW	0.05%	20, 35, 50um	1000:1	787 - 982nm	$70 - 2500cm^{-1}$	0.15nm/px, $2\text{-}4cm^{-1}$ / $3\text{-}5cm^{-1}$ / $4\text{-}6cm^{-1}$ corresponding to slit 20/35/50um	0.05nm, $0.7cm^{-1}$	1200 l/mm	350x110x61 (LxWxH)
RGs PRO 830	5-70mW	60-75 mW	0.05%	20, 35, 50um	900:1	833 - 1047nm	$40 - 2400cm^{-1}$	0.17nm/px, $2\text{-}4cm^{-1}$ / $3\text{-}5cm^{-1}$ / $4\text{-}6cm^{-1}$ corresponding to slit sizes 20/35/50um	0.05nm, $0.7cm^{-1}$	1100 l/mm	350x110x61 (LxWxH)
RGs PRO 532	10-100mW	90-110 mW	0.05%	20, 35, 50um	1200:1	533 - 658nm	$38 - 3600cm^{-1}$	0.1nm/px, $3\text{-}5cm^{-1}$ / $4\text{-}6cm^{-1}$ / $5\text{-}7cm^{-1}$ corresponding to slit sizes 20/35/50um	0.07nm, $1.5cm^{-1}$	1800 l/mm	350x110x61 (LxWxH)
With LPR customisation											
RGs PRO 785 LPR	0.01-80mW	60-90 mW	0.05%	20, 35, 50um	800:1	787 - 982nm	$70 - 2500cm^{-1}$	0.15nm/px, $2\text{-}4cm^{-1}$ / $3\text{-}5cm^{-1}$ / $4\text{-}6cm^{-1}$ corresponding to slit sizes 20/35/50um	0.05nm, $0.7cm^{-1}$	1200 l/mm	350x110x61 (LxWxH)
RGs PRO 830 LPR	0.01-65mW	55-70 mW	0.05%	20, 35, 50um	800:1	833 - 1047nm	$40 - 2400cm^{-1}$	0.17nm/px, $2\text{-}4cm^{-1}$ / $3\text{-}5cm^{-1}$ / $4\text{-}6cm^{-1}$ corresponding to slit sizes 20/35/50um	0.05nm, $0.7cm^{-1}$	1100 l/mm	350x110x61 (LxWxH)
RGs PRO 532 LPR	0.01-90mW	70-100 mW	0.05%	20, 35, 50um	1000:1	533 - 658nm	$38 - 3600cm^{-1}$	0.1nm/px, $3\text{-}5cm^{-1}$ / $4\text{-}6cm^{-1}$ / $5\text{-}7cm^{-1}$ corresponding to slit sizes 20/35/50um	0.07nm, $1.5cm^{-1}$	1800 l/mm	350x110x61 (LxWxH)
With Power customisation											
RGs PRO 785 Power	5-500mW	450-500 mW	0.05%	20, 35, 50um	3000:1	787 - 982nm	$70 - 2500cm^{-1}$	0.15nm/px, $2\text{-}4cm^{-1}$ / $3\text{-}5cm^{-1}$ / $4\text{-}6cm^{-1}$ corresponding to slit sizes 20/35/50um	0.05nm, $0.7cm^{-1}$	1200 l/mm	350x110x61 (LxWxH)
RGs PRO 830 Power	10-500mW	450-500 mW	0.05%	20, 35, 50um	2500:1	833 - 1047nm	$40 - 2400cm^{-1}$	0.17nm/px, $2\text{-}4cm^{-1}$ / $3\text{-}5cm^{-1}$ / $4\text{-}6cm^{-1}$ corresponding to slit sizes 20/35/50um	0.05nm, $0.7cm^{-1}$	1100 l/mm	350x110x61 (LxWxH)
With Power and LPR customisation											
RGs PRO 785 Power LPR	0.01-500mW	450-500 mW	0.05%	20, 35, 50um	2500:1	787 - 982nm	$70 - 2500cm^{-1}$	0.15nm/px, $2\text{-}4cm^{-1}$ / $3\text{-}5cm^{-1}$ / $4\text{-}6cm^{-1}$ corresponding to slit sizes 20/35/50um	0.05nm, $0.7cm^{-1}$	1200 l/mm	350x110x61 (LxWxH)
RGs PRO 830 Power LPR	0.1-400mW	450-500 mW	0.05%	20, 35, 50um	2000:1	833 - 1047nm	$40 - 2400cm^{-1}$	0.17nm/px, $2\text{-}4cm^{-1}$ / $3\text{-}5cm^{-1}$ / $4\text{-}6cm^{-1}$ corresponding to slit sizes 20/35/50um	0.05nm, $0.7cm^{-1}$	1100 l/mm	350x110x61 (LxWxH)
With HR customisation											
RGs PRO 532 HR	10-100mW	90-110 mW	0.05%	20, 35, 50um	800:1	533 - 600nm	$38 - 2040cm^{-1}$	0.05nm/px, $1.5\text{-}3cm^{-1}$ / $2\text{-}4cm^{-1}$ / $2.5\text{-}3.5cm^{-1}$ corresponding to slit sizes 20/35/50um	0.07nm, $1.5cm^{-1}$	2800 l/mm	350x110x61 (LxWxH)
With HR and LPR customisation											
RGs PRO 532 HR LPR	0.01-90mW	70-100 mW	0.05%	20, 35, 50um	600:1	533 - 600nm	$38 - 2040cm^{-1}$	0.05nm/px, $1.5\text{-}3cm^{-1}$ / $2\text{-}4cm^{-1}$ / $2.5\text{-}3.5cm^{-1}$ corresponding to slit sizes 20/35/50um	0.07nm, $1.5cm^{-1}$	2800 l/mm	350x110x61 (LxWxH)