# Lightnovo mini Raman PRO spectrometer 2026

## mRs PRO Lab multimode

| 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 785 PRO** | 5-400mW | 20, 35, 50µm | 2500:1 | 789-1037nm | 70 - 3100cm-1 | 0.25nm/px, 7-10cm-1 / 9-12cm-1 / 11-14cm-1 for slit sizes 20/35/50µm | 0.1nm | 1500 l/mm | 112x39x34 (LxWxH) | |
| **mRs PRO Dual 785/660** | **785**: 5-400mW<br>**665**: 5-60mW | 20, 35, 50µm | 785: 2500:1 / 665: 600:1 | 789-1037nm | **785**:70 -3100cm-1<br>**665**: 2700-3700cm-1 | **785**: 0.25nm/px, 7-10cm-1 / 9-12cm-1 / 11-14cm-1<br>**665**: 0.36nm/px, 12-15cm-1 / 13-17cm-1 / 15-18cm-1 for slit sizes 20/35/50µm | **785**: 0.1nm<br>**665**: 0.5nm | 1500 l/mm | 112x39x34 (LxWxH) | |
| **mRs PRO 830** | 5-400mW | 20, 35, 50µm | 500:1 | 830-1037nm | 70 - 2400cm-1 | 0.24nm/px, 6-9cm-1 / 7-11cm-1 / 9-12cm-1 for slit sizes 20/35/50µm | 0.1nm | 1500 l/mm | 112x39x34 (LxWxH) | |
| **mRs PRO OEM F (Full set) **** | 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 | 112x39x34 (LxWxH) | |

## mRs PRO Lab confocal

| 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 785 PRO confocal** | 5-70mW | 20, 35, 50µm | 800:1 | 789-1037nm | **785**: 70 - 3100cm-1 | 0.25nm/px, 7-10cm-1 / 9-12cm-1 / 11-14cm-1for slit sizes 20/35/50µm | 0.1nm | 1500 l/mm | 112x39x34 (LxWxH) | |
| **mRs PRO Dual 785/660 confocal** | 785: 5-90mW/ 665: 5-60mW | 20, 35, 50µm | 785: 800:1 / 665: 600:1 | 808-982nm | **785**: 70- 3100cm-1 /<br>**665**: 2700-3700cm-1 | **785**: 0.25nm/px, 7-10cm-1 / 9-12cm-1 / 11-14cm-1 //<br>**665**: 0.36nm/px, 12-15cm-1 / 13-17cm-1 / 15-18cm-1for slit sizes 20/35/50µm | 785: 0.1nm / 665: 0.5nm | 1500 l/mm | 112x39x34 (LxWxH) | |
| **mRs OEM F (Full set) **** | 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 | 112x39x34 (LxWxH) | |

## mRs PRO Operator body (multimode)

| 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 785 Operator PRO** | 10-400mW | 35µm | 2500:1 | 808-982nm | 70 - 2500cm-1 | 9-12cm-1 | 9-12cm-1 | 1500 l/mm | 112x39x34 (LxWxH) | 250g |
| **mRs 830 Operator PRO** | 10-400mW | 35µm | 2500:1 | 881-1015nm | 70 - 1800cm-1 | 8-11cm-1 | 8-11cm-1 | 1500 l/mm | 112x39x34 (LxWxH) | 250g |

* determined as peak signal-to-noise ratio of polystyrene spectrµm at 1002cm-1 at max. laser power at exposure 1 second
** Full set with ANY laser and electronics