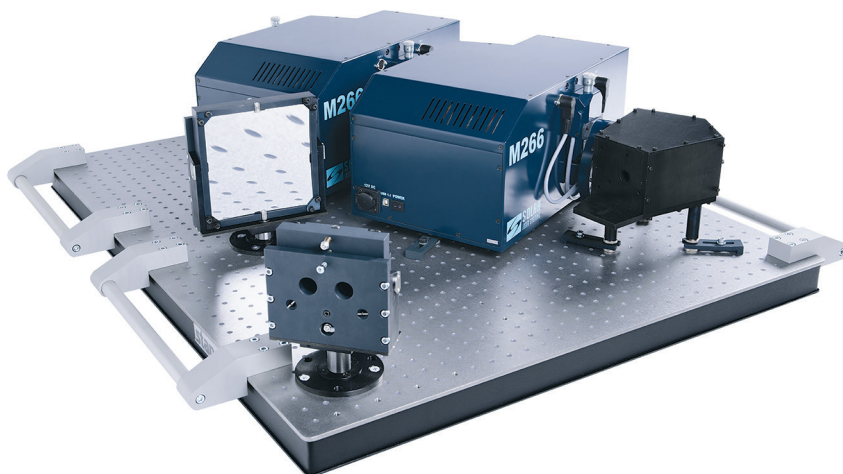


DOUBLE MONOCHROMATOR-SPECTROGRAPH BASED ON THE M266

DOUBLE M266

Monochromator-spectrograph M266 is available for order in the double-dispersive scheme modification – Double M266: in that case, the output slit of the first M266 becomes the input slit of the second M266. Due to larger focal length and dispersion addition, the twice-better spectral resolution and lower stray light are achieved. Upon your request, spectral slit with blackened blades can be supplied.



DOUBLE M266 SPECIFICATIONS

Optical scheme	Optimized Czerny-Turner with one input and two outputs								
Spectral range	Typical 190 – 3600 nm, Extended up to 40 μ m (upon request)								
F/Number	1 : 3.8								
Focal length, mm	568								
Flat field on the lateral port of the first M266, mm	30 x 10								
Flat field on the lateral port of the second M266, mm	6 x 10								
Imaging	Option. Available for the both output ports simultaneously.								
Diffraction gratings	50x50x10 mm, one grating or a turret with 4 gratings from the list below ¹⁾								
Grooves/mm	2400	1800	1200	600	400	300			
Reciprocal linear dispersion (average) nm/mm ²⁾	0.79	1.06	1.59	3.19	3.16	4.8	4.7	6.37	6.32
Blaze wavelength, nm	225	270	400	750	1000	800	1700	1500	2000
Spectral range, nm ³⁾	190-450	190-540	265-800	500-1500	660-1800	530-1600	1130-2600	1000-3000	1330-3600
Multichannel array bandpass on the output of the first M266 (average), nm	38 ⁴⁾	52 ⁴⁾	76 ⁴⁾	150 ⁴⁾	80 ⁵⁾	230 ⁴⁾	120 ⁵⁾	160 ⁵⁾	160 ⁵⁾
Multichannel array bandpass on the output of the second M266 (average), nm	3,8 ⁴⁾	5,2 ⁴⁾	7,6 ⁴⁾	15 ⁴⁾	8 ⁵⁾	23 ⁴⁾	12 ⁵⁾	16 ⁵⁾	16 ⁵⁾
Spectral resolution on the output of the second M266, nm	<0,05 ⁴⁾	<0,075 ⁴⁾	<0,11 ⁴⁾	<0,22 ⁴⁾	<0,22 ⁵⁾	<0,35 ⁴⁾	<0,35 ⁵⁾	<0,47 ⁵⁾	<0,47 ⁵⁾
Entrance/exit slits	Refer to M266 specifications								
Intermediate slit width, mm	5								
Filter wheel	Refer to M266 specifications								
Integrated shutter	Computer controlled, serves for dark signal measuring								
Computer interface	High-Speed USB								

¹⁾ Upon your request diffraction gratings differing from the above can be used.

²⁾ Reciprocal linear dispersion is indicated for blazing wavelength.

³⁾ Wavelength range for which diffraction efficiency exceeds 40%.

⁴⁾ For detector with 24 μ m pixel size and 24.5 mm length of active area.

⁵⁾ For detector with 25 μ m pixel size and 12.8 mm length of active area.