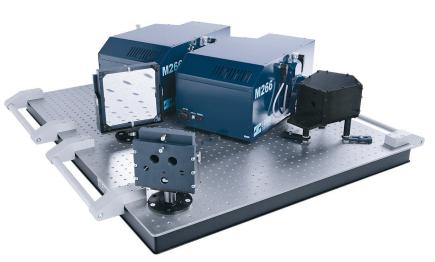
DOUBLE MONOCHROMATOR-SPECTROGRAPH BASED ON THE M266

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

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Optical scheme	Optimized Czerny-Turner with one input and two outputs								
Spectral range	Typical 190 – 3600 nm, Extended up to 40 μm (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 x10								
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	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.