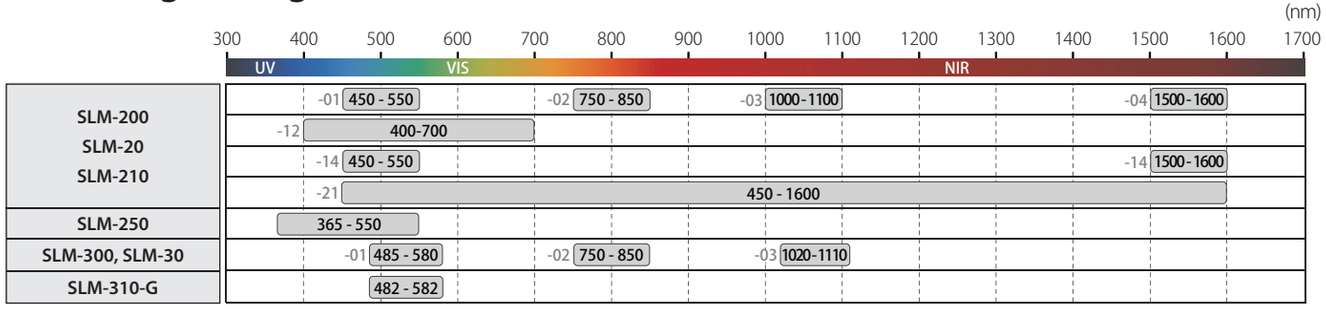
Comparison Tables for Spatial Light Modulator

Item	SLM-200 SLM-20	SLM-210			SLM-250	SLM-300 SLM-30	*Preliminary* SLM-310-G	Units
		Type A	Type B	Type C				
Wavelength range [1]	400-1600	400-700	750-1100	450-1600	365-550	532, 800, 1064	482-582	nm
Response time [2]	Typ. 200	Tr:6 / Tf:18	Tr:17 / Tf:53	Tr:48 / Tf:200	Typ. 50	Typ. 200	Typ. 200	ms
Panel reflectivity [3]	Typ. >70@532 nm	Typ. >70@532 nm			Typ. >80@532 nm	Typ. >80	Typ. >80	%
Phase stability	Typ. < 0.001π	Typ. < 0.002π			Typ. < 0.003π	Typ. < 0.003π	Typ. < 0.003π	rad.
Optical power handling [4]	Typ. 10	Typ. 10			Max. 10 mW/cm2	Max. 200	Max. 500	W/cm^2
Water flow	-	-			-	1-2	8	L/min.
Water inlet and outlet	-	-			-	Pipe fittings	Pipe fittings	-
Dimensions LCOS unit	45 x 45 x 25.7	45 x 45 x 25.7			45 x 45 x 25.7	60 x 60 x 31.7	60×85.2×21.8	mm
Dimensions SLM body	117.6 x 117.6 x 33.7							mm
Panel size	(H)15.36 x (V)9.60							mm
Panel resolution [5]	(H)1920 x (V)1200							pixel
Pixel size / pitch	7.8 / 8.0							µm
Aperture ratio	95							%
Gray level	10 (1024 levels)							bit
Frame rate	60 or 120							Hz
LCOS drive frequency	1200							Hz
Phase depth	Min. 2π							rad.
Interface [6]	DVI / USB 3.0							-
Operating temperature	15-35							℃
Storage temperature	0-40							℃
Control software	GUI software and SDK for Windows: C#, Python, Matlab, Labview							-

Wavelength Range



< AR coating option for SLM-200, 20, 210>

Item	-00	-01	-02	-03	-04	-12	-14	-21	Units
AR coating range [7]	no coating	450-550	750-850	1000-1100	1500-1600	400-700	450-550 / 1500-1600	450-1600	nm
AR coating reflectance [8]	4	< 0.5				< 1.5	< 0.6	< 2.5	%

1) SLM-200, 20, 210 : No AR coating,
refer to table for available AR coating ranges.
2) Response time is a typical value and is not affected by frame rate.
Tr: Rise time between 10% and 90% levels in a phase change of 0 to 1023 bit(2π rad.) at 25°C.
Tf: Fall time between 90% and 10% levels in a phase change of 1023 to 0 bit (2π rad.) at 25°C.
3) Zero-order reflection.
Depending on specified wavelength range.
4) The value is not guaranteed.
Depending on the conditions of the laser oscillator used, the product's life may be significantly shortened due to accumulated exposure time.
SLM-200, 20, 210: 1550 nm CW, 2.0 mm beam diameter
SLM-250: Max. 10 mW/cm^2 : @365 nm, 24H/day continuous operation.
SLM-250: Typ. 40 mW/cm^2 : Peak power @355 nm, Pulse laser.
SLM-300, 30: CW @1064 nm
SLM-310-G: CW @ 532 nm
5) Specification on the defect pixels are no object.
6) DVI: 10-bit using RGB 8-bit, 3 colors
7) We support custom AR coating request. Please contact us for detail.
8) Angle of incidence = 0 degree