

Small 512 x 512 Analog Spatial Light Modulator

Resolution: 512 x 512 **Fill Factor:** 83.4 - 100%
Array Size: 7.68 x 7.68 mm **Diffraction Efficiency*:** 61 - 95%
Pixel Pitch: 15 x 15 μ m **Controller:** PCIe 8-bit, PCIe 16-bit, DVI 16-bit

Wavelength	Wavefront Distortion	Liquid Crystal Response Time (Standard Efficiency / High Efficiency)			AR Coatings (Ravg <1%)
		Model P512/PDM512	Model HSP512/HSPDM512	Model ODP512/ODPDM512	
405 nm	$\lambda/5$	25 ms / 33.3 ms	N/A	3 ms / 4 ms	TBD
532 nm	$\lambda/7$	33.3 ms / 45 ms	7 ms / 10 ms	3.5 ms / 4.5 ms	450 – 850 nm
635 nm	$\lambda/8$	33.3 ms / 45 ms	12 ms / 16.7 ms	4 ms / 5 ms	450 – 850 nm
785 nm	$\lambda/10$	55.5 / 80 ms	17.2 ms / 22.2 ms	4.5 ms / 5.5 ms	600 – 1300 nm
1064 nm	$\lambda/10$	66.7 / 100 ms	10 ms / 16.7 ms	5 ms / 6 ms	600 – 1300 nm
1550 nm	$\lambda/12$	100 / 130 ms	20 ms / 28.5 ms	6 ms / 7 ms	850 – 1650 nm

*Diffraction efficiency of silicon backplane.
Performance varies as a function of wavelength and pixel value.

Large 512 x 512 Analog Spatial Light Modulator

Resolution: 512 x 512 **Fill Factor:** 96%
Array Size: 12.8 x 12.8 mm **Diffraction Efficiency*:** 88%
Pixel Pitch: 25 x 25 μ m **Controller:** DVI 16-bit

Wavelength	Wavefront Distortion	Liquid Crystal Response Time (Standard Efficiency / High Efficiency)		AR Coatings (Ravg <1%)
		Model P512L	Model HSP512L	
532 nm	$\lambda/5$	9 ms	2 ms	450 – 850 nm
635 nm	$\lambda/6$	15 ms	2.5 ms	450 – 850 nm
785 nm	$\lambda/7$	20 ms	4.5 ms	600 – 1300 nm
1064 nm	$\lambda/10$	33 ms	7 ms	600 – 1300 nm
1550 nm	$\lambda/12$	75 ms	14 ms	850 – 1650 nm

*Diffraction efficiency of silicon backplane.
Performance varies as a function of wavelength and pixel value.

1920 x 1152 Analog Spatial Light Modulator

Resolution: 1920 x 1152 **Fill Factor:** 95.7%
Array Size: 17.6 x 10.7 mm **Diffraction Efficiency*:** 88%
Pixel Pitch: 9.2 x 9.2 μ m **Controller:** HDMI 8/12-bit

Wavelength	Wavefront Distortion	Liquid Crystal Response Time	AR Coatings (Ravg <1%)
405 nm	$\lambda/3$	6 ms	400 – 800 nm
532 nm	$\lambda/5$	9 ms	400 – 800 nm
635 nm	$\lambda/6$	12 ms	400 – 800 nm
785 nm	$\lambda/7$	19 ms	600 – 1300 nm
1064 nm	$\lambda/10$	25 ms	600 – 1300 nm
1550 nm	$\lambda/12$	33 ms	850 – 1650 nm

*Diffraction efficiency of silicon backplane.
Performance varies as a function of wavelength and pixel value.

1 x 12,288 Analog Spatial Light Modulator

Resolution: 1 x 12,288 **Fill Factor:** 100%
Array Size: 19.66 x 19.66 mm **Diffraction Efficiency*:** 80 - 95%
Pixel Pitch: 1.6 μ m x 19.66 mm **Controller:** PCIe 16-bit

Wavelength	Liquid Crystal Response Time	AR Coatings (Ravg <1%)
532 nm	4.5 ms	450 – 850 nm
635 nm	5 ms	450 – 850 nm
785 nm	8.5 ms	600 – 1300 nm
1064 nm	15 ms	600 – 1300 nm
1550 nm	30 ms	850 – 1650 nm

*Diffraction efficiency of silicon backplane.
Performance varies as a function of wavelength and pixel value.