

# 1024 x 1024 Analog Spatial Light Modulator Specifications

**Resolution:** 1024 x 1024

**Fill Factor:** 97.2%

**Array Size:** 17.40 x 17.40 mm

**Pixel Pitch:** 17 x 17  $\mu\text{m}$

**Zero-Order Diffraction Efficiency:** 75 - 87%

**With Dielectric Mirror Coating:** 92 - 98%

Standard Calibration Wavelengths	HIGH SPEED Liquid Crystal Response Time			Calibrated Wavefront Distortion
	AR Coating Range 488 – 850 nm	AR Coating Range 500 – 1200 nm	AR Coating Range 850 – 1650 nm	
532 nm	$\leq 1.0$ ms	$\leq 1.4$ ms	-	$\lambda/5$
635 nm	$\leq 1.3$ ms	$\leq 1.8$ ms	-	$\lambda/6$
785 nm	$\leq 1.8$ ms	$\leq 2.4$ ms	-	$\lambda/7$
1064 nm	-	$\leq 3.4$ ms	$\leq 5.5$ ms	$\lambda/10$
1550 nm	-	-	$\leq 8.0$ ms	$\lambda/12$

HIGH SPEED

Standard Calibration Wavelengths	ULTRA HIGH SPEED Liquid Crystal Response Time			Calibrated Wavefront Distortion
	AR Coating Range 488 – 850 nm	AR Coating Range 500 – 1200 nm	AR Coating Range 850 – 1650 nm	
532 nm	$\leq 0.6$ ms	$\leq 0.7$ ms	-	$\lambda/5$
635 nm	$\leq 0.7$ ms	$\leq 0.9$ ms	-	$\lambda/6$
785 nm	$\leq 0.9$ ms	$\leq 1.2$ ms	-	$\lambda/7$
1064 nm	-	$\leq 1.7$ ms	$\leq 2.0$ ms	$\lambda/10$
1550 nm	-	-	$\leq 3.9$ ms	$\lambda/12$

ULTRA HIGH SPEED