

# High-Efficiency LCOS Spatial Light Modulator

## HDSLM80R DC1064



- ◆ Reflectivity up to 88%~95%
- ◆ Diffraction Efficiency up to 92%

- 1▶ An Iterative Version Designed for High-power Laser Applications
- 2▶ Damage Threshold @ Peak Power Increased by 1000 Times (Comparing with HDSLM80R)
- 3▶ Optimized Design of Heat Dissipation Structure to Satisfy High-power Laser Processing

### Product Parameter

Type	HDSLM80R DC1064
Resolution	1920*1200
Pixel Size	8μm
Reflectance	~92%
Wavelength	1064±30nm
Diffraction Efficiency (16th level)	Typ: 89% Max: 92%
Linearity	R <sup>2</sup> > 99.98%
Phase Stability	~0.003π
Phase Retardance	2.8π@532nm
Damage Threshold	100W/cm <sup>2</sup>
Bit Depth	8bit / 10bit
Interface / PC Connection	Mini HDMI / USB 2.0

### Application Fields

Optogenetics	Biological Imaging	Nanostructure Etching
Micro-nano Fabrication	Glass/Silicon Carbide/Wafer Hidden Cutting Processing	Special Material Processing Research
Beam Manipulation Optical Field Control	Laser Direct Writing Lithography	Precise Phase Measurement

