

# High-Efficiency LCOS Spatial Light Modulator

## HDSL80R DC800



- ◆ Analog Driving Circuits
- ◆ Water-cooling Structure
- ◆ Dielectric Coating for Higher Reflectivity

Distinguishing from conventional aluminum films, Modulator HDSL80R-DC800 is featured with a specialized film stack designed targeting the 800nm absorption peak.

- 1 An Iterative Version Designed for Quantum Research Application
- 2 Reflectivity Increased by 15% (Comparing with HDSL80R)
- 3 Thermal stability Improved by 10 times comparing with HDSL80R version

### Product Parameter

Type	HDSL80R DC800
Resolution	1920*1200
Pixel Size	8μm
Reflectance	88%
Wavelength	800±30nm
Diffraction Efficiency (16th level)	Typ: 89% Max: 92%
Linearity	R <sup>2</sup> > 99.98%
Phase Stability	~0.003π
Phase Retardance	2.6π@1550nm
Damage Threshold	100W/cm <sup>2</sup>
Bit Depth	8bit / 10bit
Interface / PC Connection	Mini HDMI / USB 2.0

### Application Fields

Optogenetics	Biological Imaging	Diamond Cutting
Special Material Processing	Quantum precision measurement	Optical Field Manipulation
Atomic Manipulation	Particle Trapping	Optical Tweezers

