

High Cost-effective Liquid Crystal Spatial Light Modulator



HDSLM64R Series

- ▶ 1080P resolution, 6.37 μ m pixels, > 93% fill factor
- ▶ Panel angle allows pitch adjustment
- ▶ Small size, easy to integrate

Product Parameter

Modulation Mode	Phase/Amplitude
Pixel Size	6.37 μ m
Resolution	1920*1080
Frame Rate	60Hz
Bit Depth	8bit
Fill Factor	> 93%
Phase Retardance	>3 π @532nm
Wavelength	400~700nm
Amplitude Contrast	200: 1

Application

Optical field regulation
 Holographic projection
 Commercial projection optical machine development
 Holographic module development,
 Special dimming field
 Vortex beam
 3D display
 Holographic reproduction
 Laser regulation
 Multi-spectral imaging
 Physical science optical experiments
 AR equipment development
 Computational imaging and coherent diffraction
 Projection imaging and structured light

Feature

1080P resolution
 6.37 μ m pixels
 Fill factor > 93%
 Adjustable panel by the angle of pitched up and pitched down
 Small size
 Easy integration

Thesis

1. «Controllable rotation of multiplexing elliptic optical vortices» Journal of Physics D: Applied Physics, Volume 52, Number 49.
2. «Phase retrieval exact solution based on structured window modulation without direct reference waves» Optics and Lasers in Engineering 122 (2019) 89–96
3. «Generation of coherence vortex by modulating the correlation structure of random lights» Photonics Research Vol.7, Issue12, pp.1485-1492 (2019)
4. «Scalable detection of photonic topological charge using radial phase grating» APPLIED PHYSICS LETTERS 112, 122602 (2018)
5. «Detecting the topological charge of optical vortex beams using a sectorial screen» Applied Optics Vol. 56, Issue 16, pp. 4868-4872 (2017)