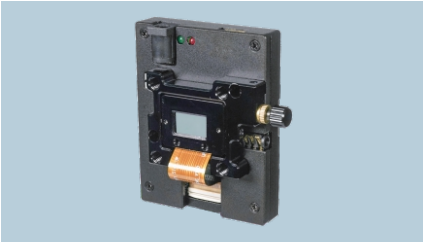


# High Cost-effective Liquid Crystal Spatial Light Modulator



## HDSLM64R Series

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

## Product Parameter

Modulation Mode	Phase/Amplitude
Pixel Size	6.37μm
Resolution	1920*1080
Frame Rate	60Hz
Bit Depth	8bit
Fill Factor	> 93%
Phase Retardance	> 2.1π@633nm
Wavelength	420~700nm
Amplitude Contrast	500: 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
- 6.37μm 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)