

High Cost-effective Liquid Crystal Spatial Light Modulator



HDSL45R Series

- ▶ 1080P resolution, 4.5 μ m small pixel, large diffraction angle
- ▶ 60Hz for color mode, 180Hz for single color mode
- ▶ Phase modulation in visible bands $> 2\pi$
- ▶ Small size, easy to integrate

Product Parameter

Modulation Mode	Phase
Pixel Size	4.5 μ m
Resolution	1920*1080
Frame Rate	60Hz/180Hz
Bit Depth	8bit
Fill Factor	$> 91\%$
Phase Retardance	$> 2.3\pi@638\text{nm}$
Wavelength	420~650nm

Feature

- 1080P resolution
- Small pixel of 4.5 μ m
- Large diffraction angle
- Monochrome mode of 360Hz
- Color mode of 60Hz
- Color gray mode of 180Hz
- Phase modulation of visible light wavelength $> 2\pi$
- Small size
- Easy integration

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

Holographic Case

