UPOLabs

High Cost-effective Liquid Crystal Spatial Light Modulator



HDSLM45R Series

- 1080P resolution, 4.5μm small pixel, large diffraction angle
- 60Hz for color mode, 180Hz for single color mode
- Phase modulation in visible bands > 2π
- Small size, easy to integrate

Product Parameter

Modulation Mode	Phase
Pixel Size	4.5μm
Resolution	1920*1080
Frame Rate	180Hz
Bit Depth	8bit
Fill Factor	> 91%
Phase Retardance	>2.3π@638nm
Wavelength	420~650nm

Feature

1080P resolution
Small pixel of 4.5μm
Large diffraction angle
Monochrome mode of 360Hz
Color mode of 60Hz
Color gray mode of 180Hz
Phase modulation of visible light wavelength > 2π
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



