

4K High Resolution Liquid Crystal Spatial Light Modulator

HDSLM36R Series



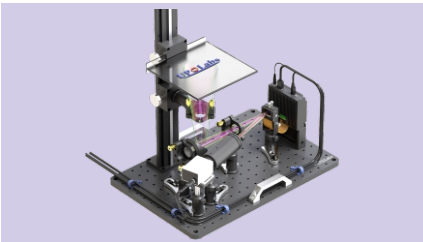
HDSLM36R/HDSLM36RA High Speed Standard Version

- Adjustable LCoS optical module by the angle of left, right, pitched up and pitched down
- Long FPC cable, LCoS optical chip module of small size, Easy integration
- High space bandwidth, High imaging resolution



HDSLM36R-Lite High-speed Compact Version

- Pluggable FPC cable
- Separated structure, Small control board applicable for compact space



HDSLM36R-Kit High-speed Holographic Kit

- Integrated system with optical path ready
- Easy to operate by simply powered-on



HDSLM36R-PCIe Multichannel Version

- 4 LCoS optical modules integrated in one driver board
- Applicable for combination control of 8K4K, maximum allowable application for combination control of 16k8k
- Applicable for multi-SLM cascade optical computing applications
Mix-modulation of amplitude and phase
- Separated structure

Product Parameter

Type	Modulation Mode	Resolution	Frame Rate	Pixel Size	Bit Depth	Fill Factor	Amplitude Contrast	Phase Retardance	Wavelength
HDSLM36R	Phase	4096*2240	180Hz	3.6μm	8bit	> 90%	/	> 2.1π@670nm	420~670nm
HDSLM36R-TELCO								> 2π@1550nm	1550±100nm
HDSLM36RA	Amplitude						1000:1	/	420~670nm

Application

Optical field control Beam deflection Optical diFF multiplexing Free space optical communication Holographic storage
Ultra-high resolution imaging Laser processing /3D printing Computational holography Holographic projection

Holographic Case



Thesis

- 1.《Conjugate wavefront encoding: an efficient eyebox extension approach for holographic Maxwellian near eye display》Optics Express Vol. 29, Issue 4, pp. 4927-4935 (2021).
- 2.《Generation of distortion-free scaled holograms using light field data conversion》Optics Express , Vol. 29, Issue 1, pp. 487-508 (2021).