

## New Product Announcement

# HoloEye LC-R 2500 Spatial Light Modulator

HoloEye Photonics AG presents a new Spatial Light Modulator (SLM) based on a reflective LCOS (Liquid-Crystal-On-Silicon) micro-display. It can be used to spatially modulate coherent or incoherent light in amplitude and phase.

### System LC-R 2500:

- Complete developer kit
- XGA device
- 8 Bit modulation
- 72 Hz direct addressing
- Gamma correction



The possibility of dynamic addressing of optical functions onto the high resolution micro-display leads to a dynamic optical component - a digital-optical interface. Applications vary from direct imaging to laser modulation with addressable diffraction patterns from Biophotonics to material processing.

### Display Features:

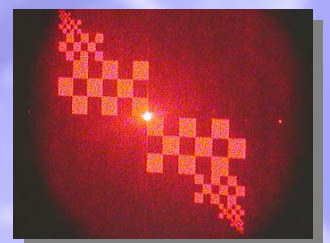
- 1024 x 768 pixel
- 19  $\mu\text{m}$  pixel pitch
- 93% fill factor
- Imaged array 19.6 x 14.6 mm

### Optical Features:

- High contrast amplitude modulation
- Phase modulation up to  $2.5 \pi$  in the visible
- Diffraction efficiency > 70 %
- High reflectivity

Furthermore, digital holography, diffractive optics, interferometry and laser modulation in general (beam shaping and beam splitting) are potential applications. Besides the resolution and the small pixel size, the light efficiency of the system is one of the most outstanding parameters.

The developer Kit is a Plug & Play device which will be delivered as a complete system and runs on all Windows® platforms. An additional software can steer the display setting via a Graphical User Interface.



Reconstruction of digital and Fourier holograms

For further information, please contact us.

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