

On Liquid Crystal Spatial Light Modulator



Overview

(MIIPS) is a technique based on the computer-controlled phase scan of a linear-array spatial light modulator. Through the phase scan to an ultrashort pulse, MIIPS can not only characterize but also manipulate the ultrashort pulse to get the needed pulse shape at target spot (such as for optimized peak power, and other specific pulse shapes). This technique features with full calibration and control of the ultrashort pulse, with no movin.



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Liquid-crystal spatial light modulators control the optical path of light waves by modulating the refractive index. They play an important role in adaptive optics as phase-correction devices.



Schematic of a liquid crystal-based Spatial Light Modulator. Liquid crystals are birefringent, so applying a voltage to the cell changes the effective refractive index seen by the incident wave, and thus the ...



In the review, the authors show how such SLMs can be exploited for a myriad of tasks, from creating all forms of structured light to fast and efficient detectors.



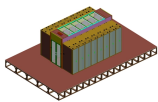
In particular, liquid-crystal spatial light modulator (LC-SLM) technologies have been regarded as versatile tools for generating arbitrary optical fields and tailoring all degrees of freedom beyond just ...



A spatial light modulator (SLM) is a device that can control the spatial distribution of the properties of light across the profile of a beam. The term SLM most often refers to a liquid crystal based device, ...



With the distinct advantages of high resolution, small pixel size, and multi-level pure phase modulation, liquid crystal on silicon (LCoS) devices afford precise and reconfigurable spatial...



Abstract A liquid crystal on silicon spatial light modulator (LCoS SLM) with large phase modulation has been thoroughly characterized to operate optimally with several linear phase ...



Overview Application in ultrafast pulse measuring and shaping Electrically-addressed spatial light modulator (EASLM) Optically-addressed spatial light modulator (OASLM) External links



HOLOEYE ´s Spatial Light Modulator systems are based on translucent (LCD) or reflective (LCOS) liquid crystal microdisplays. The use of LC materials in SLMs is based on their optical and electrical ...



Liquid crystal modulators are a type of optical modulator which utilize liquid crystals to control the intensity, phase, or polarization of light. The operation principle is based on the birefringence of liquid ...

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