

Hamamatsu's X10468/X13267/X13138 series of devices are a reflective type of pure phase Spatial Light Modulators (SLMs), based on Liquid Crystal on Silicon (LCOS) technology in which liquid crystal ...

This study provides a comprehensive investigation into the thermal effects and spatial resolution constraints of a pure phase optical addressing spatial light modulator (POASLM) ...

Finally, we demonstrate the device's functionality as a fully configurable spatial light modulator by independently control-ling each meta-molecule to locally impart phase shifts and to manipulate the ...

Emerging demands for dynamic wavefront modulation in holographic displays, augmented/virtual reality, and light detection and ranging require spatial light modulators (SLMs) with ...

Meadowlark Optics award-winning Spatial Light Modulators (SLMs) provide precision retardance control for spatially varying phase or amplitude requirements. Our SLMs consist of liquid crystal (LC) pixels, ...

Research on the phase modulation capability of pure phase optical addressing spatial light modulator

Discover the booming Pure Phase Liquid Crystal Spatial Light Modulator (PPLCSLM) market. Explore key trends, driving forces, and major players shaping this \$250M (2025 est.) industry ...

In this work, we propose to generate complex modulation with a single SLM for optimizing the performance of DOEs. For that, we fill, as evenly as possible, the Argand plane, representing the ...

We present a proof of principle demonstration of a method for preparing arbitrary pure states of such systems by using a single phase-only spatial light modulator (SLM).

Since phase-change materials such as GeTe can be switched on sub-microsecond timescales, this approach maps out a route for ultra-fast amplitude spatial light modulators with ...

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