Recommended Spatial Light Modulators

Learn about Spatial Light Modulators (SLMs), including optically addressed and electrically addressed types, their drawbacks, and a list of vendors.

Spatial light modulator (SLM) is a general term describing devices that are used to modulate amplitude, phase, or polarization of light waves in space and time.

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 schematic of a liquid crystal on silicon (LCOS) spatial light modulator (SLM) showing how applied voltage reorients liquid crystal molecules to modulate the phase of incident light, which is then ...

A spatial light modulator (SLM) is a device that can control the intensity, phase, or polarization of light in a spatially varying manner. A simple example is an overhead projector transparency. Usually when ...

A spatial light modulator (SLM) is a pixellated liquid crystal device that can individually control the phase value of each pixel. It imposes spatially varying modulation onto an incident beam, allowing for the ...

Discover the principles, types, and applications of Spatial Light Modulators in optics, including their role in beam shaping and holography.

The SPIE Digital Library offers a comprehensive collection of research articles, conference papers, and technical documents focused on spatial light modulators (SLMs), reflecting the breadth and depth of ...

Spatial Light Modulator (SLM) is a fascinating piece of technology that controls light waves to manipulate images, shapes, or patterns in a precise manner. It plays a crucial role in fields like ...

Thermal and optical performance characteristics of a spatial light modulator with high average power picosecond laser exposure applied to materials processing applications.

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