

In this paper, we propose an alternative simple method to arbitrarily manipulate the amplitude and phase of the incoming light beam with two phase-only SLMs without using any phase...

We experimentally demonstrate the independent phase and amplitude modulation using this novel technique. Our technique does not impose special requirements on the spatial light modulator and ...

This paper proposes a novel pixel shift-based dual-phase modulation method (PS-DPMM) designed to enhance the spatial resolution of complex amplitude modulations.

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 ...

The pattern dictates that every other cell is designated to perform one modulation (e.g., the AM) and another cell is designated to perform another modulation (e.g., the PM).

We propose a novel modulation technique to achieve amplitude and phase modulation of light using a SLM together with a spatial filter. This technique does not pose special requirements on the SLM or ...

Meadowlark Optics award-winning spatial light modulators (SLMs) provide precision retardance control for spatially varying phase modulation or amplitude modulation requirements. Our SLMs consist of ...

A metasurface-based spatial light modulator brings the pixel size down to the submicrometre scale while demonstrating real-time complex-amplitude holography, three ...

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 ...

The pattern dictates that every other cell is designated to perform one modulation (e.g., the AM) and another cell is designated to perform another ...

Here, we show, for the first time, large and finely tunable changes in the amplitude and phase of the complex degree of spatial coherence, controllable at the micrometer scale by simply varying the slit ...



Amplitude-Phase Modulator

Spatial

Optical

Web: <https://maxtools.co.za>

