Spatial Light Modulator Vortex Beam

The system is implemented based on two spatial light modulators (SLMs), one of which forms a multiplexed signal on the transmitting side, and the ...

There is still a need for novel methods to produce composite vortex beams. We propose the method to produce a controlled superposition of such beams. Phase patterns are divided ...

Their wide range of applications makes them attractive and easily available due to the growing interest in the Spatial Light Modulators (SLM). In this paper, we present a simple method for generating ...

These combinations of various vortex beams are usually produced just by the superposition of two separated beams. Several papers are referring to this method [27-33]. Some of them require very ...

In this study, we report a switchable perfect vortex beam (PVB) generator with high efficiency in the visible by combining spatially patterned photoalignment of nematic liquid crystal (LC)...

We theoretically analyze the spiral axicon, and then experimentally verify its performance by implementing a spiral axicon on spatial light modulator. Our work provides an alternative method ...

The system is implemented based on two spatial light modulators (SLMs), one of which forms a multiplexed signal on the transmitting side, and the other implements a multichannel DOE for ...

Aiming at the problem that the vortex beam is difficult to obtain under laboratory conditions, a vortex beam generation method based on spatial light modulator (SLM) is proposed.

A method is described for generating optical vector vortex beams carrying superpositions of orbital angular mo-mentum states by using a tandem application of a spatial light modulator with a vortex ...

We demonstrate collinear phase-shifting holography for measuring complex optical modes of twisted light beams with orbital angular momentum (OAM) generated by passing a laser through a spatial ...

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