Indzawo Optic Connect

Spatial Light Modulator Simulation

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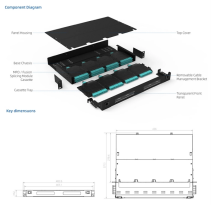
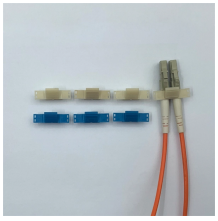
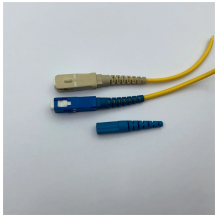


Highlights simulation of light shaping using a spatial light modulator (SLM) investigation of influence of the non-functional gaps between the SLM pixels

The spatial light modulator can be thought of digitally recreating the desired wavefront to couple the light to a given fiber or location based on the wavefront of the incident beam of light.



Spatial Light Modulators are the heart of any wavefront shaping experiment. Currently, OpenWFS supports the use of phase-only spatial light modulators through the following simple interface:



This guide focuses on the shaping of coherent light with these tools. We out-line the means by which one can get started with digital holography as well as introduce phase-only, amplitude-only, and ...

slmsuite combines GPU-accelerated beamforming algorithms with optimized hardware control, automated calibration, and user-friendly scripting to enable high-performance programmable optics ...

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 ...

Toolbox for generating and simulating patterns for spatial light modulators. A set of Matlab functions and graphical user interface for generating patterns for phase and amplitude spatial light ...

We first construct a forward model that simulates the light propagation from a 1D SLM through free space and include the light''s interaction with discretized phase masks.

Atmospheric emulators based on spatial light modulators offer the ability to test atmospheric propagation effects on a laser communication component''s performance in the laboratory setting. To create a ...

Simulation of Phase Modulation Characteristics in High-resolution Spatial Light Modulators for Electronic Holography

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