Interference Holographic Spatial Light Modulator

Here, an optimized method of dual spatial light modulators holographic display is proposed based on wavefront frequency decomposition. The wavefront frequency decomposition ...

Key themes include the use of SLMs in optical imaging, holography, adaptive optics, and telecommunications, highlighting their role in enhancing image quality and enabling advanced ...

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

Therefore, it is recommended to calibrate the modulation characteristics of SLMs prior to their implementation for imaging applications. This chapter provides comprehensive literature (review) of ...

Abstract--Liquid crystal on silicon (LCOS) spatial light modulator (SLM) is the most widely used optical engine for digital holography. This paper aims to provide an overview of the applications ...

In this work, a simple and versatile spatiotemporal holographic method that can arbitrarily sculpt the spatiotemporal light is presented.

Holographic displays reconstruct 3D video by displaying interference fringe patterns on a spatial light modulator (SLM) *2 and illuminating them with playback lighting.

Therefore, the current study aims to analyze and compensate for such deformations in a phase-only SLM using a Michelson interferometer. The recorded interferogram represents the ...

We demonstrate two-step phase-shifting interferometry (holography) of complex laser modes generated by a spatial light modulator (SLM), in which the amplitude and phase of the signal are determined ...

An electron-holographic interference microscope that produces a time-sequential interference micrograph at a TV rate is developed. In this system, the electron off-axis hologram detected with a ...

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