

Diffraction efficiency of spatial light modulator



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We present a general approach for optimizing the diffraction efficiency of a phase-type spatial light modulator (SLM). While the SLM displays a one-dimensional phase grating, the phase shift of one ...



Diffraction Efficiency (0th-order) - This is the amount of light retained in the 0th-order (dc) when writing solid grayscale images to the SLM as compared to the amount of light in the 0th order when the SLM ...



This work presents experimental evidence of an anamorphic and spatial frequency dependent phase modulation in commercially available twisted nematic liquid crystal spatial light modulators and ...



Here, we characterize the diffraction efficiency for one of these PLMs and examine the effect of a nonlinear distribution of addressable phase states across a range of wavelengths and illumination ...



Even with an SLM that has a shallow phase depth, we can improve the efficiency of the SLM by increasing the contrast in the blazing. We can also reduce the contrast in some areas to play around ...



DMD works by tilting the micromirrors between two states, sending the light in two directions. When the mirrors are in one state, the light is directed toward the open aperture of the system, while when in ...



When encoding diffractive optical elements (DOE) onto a spatial light modulator (SLM), the diffraction efficiency can be reduced because of the pixel nature of the SLM. These effects have ...



Here we introduce a new class of spatial light modulator that provides both 2D pixel geometry and high speed. The device operates by encoding spatial information in frequency bins via a broadband ...

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