

# How to project a spatial light modulator onto a screen

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 ...

A spatial light modulator (SLM) is a device that can control the intensity, phase, or polarization of light in a spatially varying manner. A simple example is an overhead projector transparency.

All HOLOEYE Spatial Light Modulators are addressed like a monitor device via standard DVI or HDMI. This means the SLM actually acts like a standard monitor device (e.g. in extended desktop mode for ...

This is one of a few techniques to give a beam of light OAM. SLMs are ideal for this project because they can be reprogrammed quickly to create many different LG beams, and can store...

This document provides a user manual for a 1920x1152 XY Phase series spatial light modulator with an HDMI controller. It describes the system components, software operation, pattern generation options, ...

In this short tutorial we will present the parts which are included in the PLUTO-2.1 Spatial Light Modulator kit and demonstrate how to connect the display (...)

The SLM can be created in windowed mode (useful for debugging), or full screen. It is possible to have multiple windowed SLMs on the same monitor, but only one full-screen SLM per monitor. In addition, ...

Overview  
Electrically-addressed spatial light modulator (EASLM)  
Optically-addressed spatial light modulator (OASLM)  
Application in ultrafast pulse measuring and shaping  
External links  
A spatial light modulator (SLM) is a device that can control the intensity, phase, or polarization of light in a spatially varying manner. A simple example is an overhead projector transparency. Usually when the term SLM is used, it means that the transparency can be controlled by a computer. SLMs are primarily marketed for image projection, displays devices, and maskless lithography. SLMs are also used in optical computing and holographic optical tweezers.

Looking for a color holographic projection system? Our spatial light modulator-based solution offers high-quality, vibrant holographic displays for your needs.

This paper presents a holographic projection display in which a phase-only spatial light modulator (SLM) performs three functions: beam shaping, image display, and speckle reduction.

SLM is a very interesting device. It modulates light in space, either modulating the phase or the amplitude of

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light. There are plenty of uses for an SLM (search in Wikipedia). The main goal of ...

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