

DMD Spatial Light Modulator Supplier



AI Overview

Leading manufacturers of DMD-based Spatial Light Modulators include ViALUX GmbH, Fraunhofer IPMS, UNV Photonics, Shanghai Realic, and Accio, offering high-performance solutions for industrial, scientific, and research applications. Key Manufacturers and Offerings

ViALUX GmbH (Germany) ViALUX develops V-Modules, high-performance DLP® subsystems based on Texas Instruments' DMD chipsets. These modules feature millions of micromirrors with fast switching speeds, broad spectral coverage from 343 nm (UV) to 2000 nm (NIR), and high optical power densities. V-Modules are designed for industrial, scientific, and medical applications, offering low-latency SDRAM memory, FPGA logic, and a universal API for rapid integration and custom control of micromirror arrays.

Fraunhofer IPMS (Germany) Fraunhofer IPMS specializes in custom SLMs using micromirror arrays with analog or quasi-continuous deflection. Their devices support single-axis tilt, dual-axis tilt, piston mirrors, and piston-tip-tilt configurations. Applications include optical microlithography, semiconductor inspection, adaptive optics, holography, and advanced medical imaging. Fraunhofer IPMS provides electronics and software for precise mirror control, enabling high-speed, high-resolution light modulation.

UNV Photonics (China) The HDSLM-D series from UNV Photonics offers DMD-based SLMs for projection imaging, lithography, computational optics, and information optics. These modulators feature over 2 million micromirrors for broadband visible light and are suitable for 3D printing, laser marking, ophthalmology, hyperspectral imaging, and adaptive lighting applications.

Shanghai Realic (China) Shanghai Realic provides a wide range of HDSLM-D DMD SLMs, including Standard, Ultra-High-Speed, Intelligent Ultra-High-Speed, and High-Capacity versions. These SLMs are optimized for UV and NIR spectral ranges, with options for high-speed memory (DDR) or large-capacity SSD storage, and embedded algorithms for intelligent control.

Accio (Glob...

Article Content

Spatial Light Modulator | SIMTRUM Photonics Store

SIMTRUM's provides 3 types of spatial light modulators: phase type, amplitude type and DMD digital micromirror type spatial light modulator; In addition, the phase type and amplitude type modulators

Anti-scattering light focusing by fast wavefront shaping based ...

Speed and enhancement are the two most important metrics for anti-scattering light focusing by wavefront shaping (WS), which requires a spatial light modulator with a large number of

Spatial Light Modulators

HOLOEYE's Spatial Light Modulator systems are based on translucent (LCD) or reflective (LCOS) liquid crystal microdisplays. The use of LC materials in SLMs is

Wavefront shaping techniques in complex media

Controlling a Spatial Light Modulator remotely using a Raspberry Pi A practical guide to Digital Micro-mirror Devices (DMDs) for wavefront shaping Test of the new Vialux DMD mount for holographic

How It Works | Photonics Spectra

It is a mass-produced spatial light modulator based on mature semiconductor material systems and processing. Numbering more than 8 million in the field, the

ViALUX | electro-optical components | optical

Discover high-performance DLP® technology by ViALUX. Our cutting-edge optical measurement solutions deliver precision and reliability - bring innovation to your

Digital Micromirror Device| SIMTRUM Photonics Store

SIMTRUM's Digital Micromirror Device is a type of spatial light modulator that modulates the amplitude and direction of incident light. A DMD is an array

Spatial light modulator

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.

Spatial Light Modulators – Buyer's Guide & Supplier List

This buyer's guide for spatial light modulators provides technical background, comparison of major types, selection criteria, and an overview of suppliers.

Ultra-High-Speed Digital Micromirror Devices (DMDs)-JCOPTIX MALL

The ultra high speed digital micro mirror spatial light modulator provided by JCOPTIX has USB 3.0, gigabit/ten gigabit network high-speed image transmission and display, high-speed synchronous

Spatial Light Modulators

Spatial Light Modulators - GoPhotonics - Digital Micromirror Device (DMD) 24 Spatial Light Modulators from 2 Manufacturers meet your specification.

Advanced DLP® Technology | DMD-Based Spatial Light

ViALUX V-Modules offer a quick introduction to DLP® technology from Texas Instruments. They offer maximum flexibility and support a wide range of

Industrial High Power Spatial Light Modulator Market Share ...

What is the current size and growth outlook of the Mexico Industrial High Power Spatial Light Modulator Market? Mexico's market for industrial high power SLMs is relatively nascent, valued

Applications of Spatial Light Modulators in Raman

Advances in consumer display screen technologies have historically been adapted by researchers across the fields of optics as they can be used as

Spatial Light Modulators Market Research Report 2034

Spatial light modulators, including liquid crystal on silicon (LCOS), digital micromirror devices (DMD), and liquid crystal display (LCD) technologies, represent a critical enabling technology across multiple

DLP® Chipsets

The DLP® 6500 1080p platform is available in two DMD types: S600 and Type-A. Featuring over 2 million micromirrors, the high resolution .65 1080p digital

Spatial Light Modulator

Find the right Spatial Light Modulator (SLM) for your project. Our experts will advise you individually so that your SLM meets all requirements.

Spatial Light Modulators

We develop custom spatial light modulators with segmented micromirror arrays and a high pixel count—tailored for demanding industrial applications. Our advanced

Spatial Light Modulators

These spatial light modulators provide far more pixels than lower-order phase modulators such as segmented or deformable mirrors. For applications requiring

High damage threshold, near-infrared DMD Spatial light

Our ultra-high speed DMD Spatial light modulator is designed with Xilinx High performance-to-price FPGA and supports USB 3.0 or Gigabit Ethernet or 10

Spatial Light Modulators

Discussing the properties of spatial light modulators and how to include them in a comprehensive analysis including optical requirements.

DMD 101: Introduction to Digital Micromirror Device (DMD)

The DMD pixel is an opto-mechanical element in that these two positions determine the direction that light is deflected. In particular, the DMD is a spatial light modulator. By convention, the positive (+)

Digital Micromirror Device Spatial Light Modulator

Digital Micromirror Device Spatial Light Modulator The HDSLM-D Series comprises DMD-based spatial light modulators (SLMs) specifically engineered for advanced light control applications.

Deformable Mirror Light Modulators For Image Processing

The operational characteristics of deformable mirror device (DMD) spatial light modulators for image processing applications are presented. The two DMD pixel structures of primary interest are the

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