

Which companies produce space light modulators



AI Overview

Key companies producing spatial light modulators include Thorlabs, Fraunhofer IPMS, Jenoptik AG, Santec Holdings, and Elliot Scientific Ltd. Spatial light modulators (SLMs) are devices that control the phase, amplitude, or polarization of light and are widely used in laser optics, holography, microscopy, optical communication, and quantum computing. Leading Manufacturers Thorlabs, Inc. Thorlabs produces Exulus® SLMs using Liquid Crystal on Silicon (LCoS) technology, offering high-resolution, high-speed reflective phase modulation with individually addressable pixels. Their SLMs support applications requiring thermal stability and high-power handling across wavelengths from 400 nm to 1100 nm. Fraunhofer IPMS Fraunhofer IPMS develops SLMs based on micromirror arrays with up to 2.2 million individually controlled mirrors. These modulators are used in optical microlithography, semiconductor inspection, adaptive optics, holography, and quantum computing. Their MEMS-based SLMs provide high modulation frequencies and precise analog control of mirror positions. Jenoptik AG Headquartered in Berlin, Germany, Jenoptik manufactures SLMs and other optical technologies, including custom LiDAR optical modules and imaging solutions for 3D spatial applications. Santec Holdings Corporation Santec specializes in optical components and modulators for laser control, sensing, and communication systems, providing high-speed and precise light modulation. Elliot Scientific Ltd. Elliot Scientific, based in the UK, supplies SLMs and other photonics equipment for research, industrial, and biomedical applications, including imaging, spectroscopy, and optical measurement systems. Additional Notes Other companies and distributors also provide SLMs, often tailored for specific applications such as augmented reality, medical imaging, or optical computing. The market is dynamic, with companies foc...

Article Content

Space Light Modulator Market Size, Approaches, Trends ...

The Space Light Modulator Market Segmentation Analysis divides the market into distinct categories based on key factors such as product type, application, end-user, and region.

Industrial Space Light Modulator Market Size, Opportunities, Trends ...

Current Market Trends The global industrial space light modulator market is experiencing rapid evolution driven by technological advancements and increasing demand across various sectors.

Spatial Light Modulators

Our high-power SLMs are recommended for these applications. Thorlabs' Exulus® Spatial Light Modulators (SLMs) employ Liquid Crystal on Silicon (LCoS)

Spatial Light Modulator Market 17.19 CAGR Growth Outlook 2026-2034

Spatial Light Modulator Market 17.19 CAGR Growth Outlook 2026-2034 Spatial Light Modulator Market by Type (Amplitude Modulators, Polarization Modulators, Phase Modulators,

Spatial Light Modulator

Spatial Light Modulators (SLM) – High-precision technology for modern optics Discover high-quality solutions for the precise control and modulation of light

Spatial Light Modulators – Buyer's Guide & Suppliers

12 suppliers for spatial light modulators (SLM) are listed in the RP Photonics Buyer's Guide, out of which two present their product descriptions and images. Both manufacturers and distributors can be

Spatial Light Modulators

Our liquid crystal on silicon (LCoS) spatial light modulators boast exceptional speed, efficiency, and high resolution, ensuring accurate and reliable results. Contact a Meadowlark Optics Solutions Engineer

Space Light Modulator Market Growth Driven by Innovation ...

The Space Light Modulator Market was valued at 10.77 billion in 2025 and is expected to expand at a CAGR of 9.78% during 2026–2033, reaching an estimated 22.72 billion by 2033. This

6 Light Modulator Manufacturers in 2026

This section provides an overview for light modulators as well as their applications and principles. Also, please take a look at the list of 6 light modulator manufacturers and their company rankings.

Light Modulators

The light modulator of optical sensors changes wave features of the radiated light oscillations like frequency, polarization, phase, and intensity. Also, the optical element of optical sensors guides the

Melia Bonomo / SLM Intro

I. What is an SLM? A spatial light modulator (SLM) is a transmissive or reflective device that's used to spatially modulate the amplitude and phase of an optical wavefront in two dimensions. Image

Space Light Modulator Market Report | Global Forecast From 2025 To

The global Space Light Modulator market size was valued at approximately USD 1.5 billion in 2023 and is expected to reach around USD 3.8 billion by 2032, growing at a compound annual growth rate

Digital spatial light modulators

Digital spatial light modulators (SLMs) provide fine-grained control of light, allowing the creation of two-dimensional light patterns with user-controllable characteristics.

Spatial Light Modulator Companies

Spatial light modulator (SLM) companies manufacture devices that control the amplitude, phase, and polarization of light. SLMs find applications in fields like laser optics, holography, and

Spatial Light Modulators

Spatial light modulator (SLM) is a general term describing devices that are used to modulate amplitude, phase, or polarization of light waves in space and time.

HOLOEYE's Spatial Light Modulator systems

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

Space Light Modulator Market Demand and Consumption Trends:

Explore the dynamic Space Light Modulator market, projected for significant growth driven by AR, VR, and advanced display technologies. Get key insights, market size, CAGR, and regional

Space Light Modulator Market Report | In-Depth Analysis 2035

Texas Instruments announced in March 2025 a major collaboration with Fraunhofer Institute to develop radiation-hardened DLP-based spatial light modulators for space applications, aiming to improve

Spatial Light Modulator Manufacturers

Spatial light modulators (SLMs) are devices used to modulate the phase, amplitude, or polarization of light spatially across a two-dimensional plane. The leading manufacturers of SLMs are listed below.

Spatial Light Modulator Market Companies

Spatial Light Modulator Market Competitive Landscape The global spatial light modulator (SLM) market is characterized by a competitive landscape with several key players operating in the industry. These

Spatial Light Modulators | Suppliers | Photonics Buyers' Guide ...

A spatial light modulator (SLM) is an optical device that modulates or manipulates the amplitude, phase, or polarization of light in two dimensions, typically in the form of an array. SLMs are versatile tools

Fraunhofer IPMS spatial light modulators for outer space

Using spatial light modulators, variable image patterns can be generated at high speed. These patterns are superimposed on the observed scene and recorded by single pixel detectors.

Spatial Light Modulators – Buyer's Guide & Suppliers

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

Spatial Light Modulator: Revolutionizing Optical Technologies

Spatial Light Modulators represent a cornerstone of modern optical innovation, offering unmatched precision and adaptability across diverse applications. Their ability to manipulate light

Industrial Space Light Modulator Market Growth Insights 2035

The Industrial Space Light Modulator Market Size was valued at 2,153.4 USD Million in 2024. The Industrial Space Light Modulator Market is expected to grow from 2,315 USD Million in 2025 to 4,800

Contact Us

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