

Article Overview

The price of a Spatial Light Modulator (SLM) typically ranges from \$5,000 to over \$50,000 depending on resolution, speed, and technology, with exact quotes provided by suppliers.

Overview of SLM Pricing

Spatial Light Modulators (SLMs) are specialized optical devices used for precise control of light in applications such as adaptive optics, holography, optical tweezing, and quantum technologies . Prices vary widely due to factors including:

- o Resolution and pixel count: Higher-resolution SLMs (e.g., 1920x1200 or 4K arrays) cost more due to increased manufacturing complexity .
- o Technology type: Liquid Crystal on Silicon (LCoS) SLMs are generally more expensive than basic liquid crystal (LCD) SLMs or digital micromirror devices (DMDs) because of their precise phase modulation capabilities .
- o Refresh rate and speed: High-speed SLMs (hundreds to thousands of Hz) command higher prices, especially for real-time adaptive optics or ultrafast laser applications .
- o Wavelength range and power handling: SLMs designed for high-power lasers or broad wavelength ranges (400-1100 nm) are more costly .
- o Special features: Compact, portable, or color-sequential SLMs may have premium pricing due to miniaturization and advanced electronics .

Typical Price Ranges

- o Entry-level / educational SLMs: \$5,000-\$10,000. These are suitable for teaching, demonstrations, or basic research .
- o Mid-range research SLMs: \$10,000-\$25,000. These include higher resolution, faster refresh rates, and better phase stability for laboratory experiments .
- o High-end / industrial SLMs: \$25,000-\$50,000+. These are used in advanced adaptive optics, high-power laser shaping, or quantum computing applications .

How to Obtain Exact Pricing

Most suppliers, including Meadowlark Optics, Thorlabs, HOLOEYE, and FindLight, provide pricing upon request. Interested buyers typically:

- o Contact a sales engineer or request a quote through the supplier's website .
- o Specify desired resolution, refresh rate, wavelength range, and application requirements.
- o Receive a customized quote reflecting the exact configuration and optional accessories. Because SLMs are

Price of Spatial Light Modulator SLM

highly configurable, direct supplier contact is the most reliable way to get accurate pricing.

Conclusion

SLM prices are highly variable, generally starting around \$5,000 for basic models and exceeding \$50,000 for high-performance, high-resolution devices. For precise pricing, it is recommended to contact suppliers like Meadowlark Optics, Thorlabs, or HOLOEYE with your specific technical requirements .

Get the best deals for Spatial Light Modulator at eBay.com. We have a great online selection at the lowest prices with Fast & Free

I. What is an SLM? A spatial light modulator (SLM) is a transmissive or reflective device that's used to spatially modulate the

Spatial light modulator (SLM) is a general term describing devices that are used to modulate

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

SIMTRUM's provides 3 types of spatial light modulators: phase type, amplitude type and DMD digital micromirror type spatial light

Spatial Light Modulator Market Size and Share Forecast Outlook From 2025 to 2035 The global spatial light modulator

The compact spatial light modulator (EXULUS-SE1) consists of a built-in SLM panel with compact housing.

Meadowlark Optics is pleased to introduce our latest 1920 x 1200 Spatial Light Modulator (SLM) options.

Our liquid crystal on silicon (LCoS) spatial light modulators boast exceptional speed, efficiency, and high resolution, ensuring

Laser 2000 offers a wide range of Meadowlark optic spatial light modulators, from Optical Kits to transmissive and high-speed SLM'S.

Transmission amplitude spatial light modulator is a kind of amplitude spatial light modulator, which has ultra-high spatial resolution,

The SLM-20 is a spatial light modulator designed to be integration into industrial equipment. It consists of a compact LCOS head and

Price of Spatial Light Modulator SLM

12 suppliers for spatial light modulators (SLM) are listed in the RP Photonics Buyer's Guide, out of which

Spatial Light Modulators - Delivering the highest quality optics for over 40 years: polarizers, photonics, spatial light modulators, and

The GAEA-C Spatial Light Modulator is a compact version of the 4K GAEA-2.1 SLM with a cost optimized

Spatial Light Modulator Santeo "s LCOS (Liquid Crystal on Silicon) Spatial Light Modulator (SLM) is an

Web: <https://bssoda.pl>

