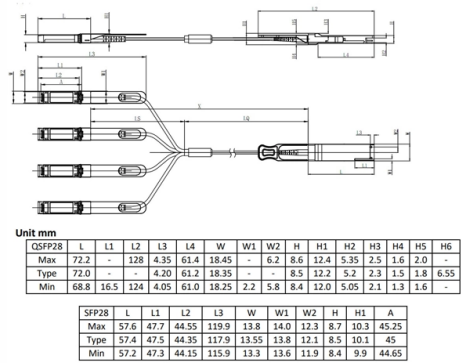


What is the price of a 1 2 beam splitter



Overview

Thorlabs · Optical BeamsplittersThorlabs offers a wide range of optical beamsplitters. Our plate beamsplitters have a coated front surface that determines.

Key Takeaways

The price of a 1: 2 beam splitter typically ranges from \$50 to several hundred dollars, depending on type, material, and specifications.

Factors Affecting Price

Type of Beam SplitterPolarizing Beam Splitters (PBS): Split light based on polarization; commonly used in photonics and fiber optic systems. For example, a 1x2 980nm P-grade polarization beam splitter is available from suppliers like Fibermart, with pricing generally starting around \$100 for standard models with free shipping.

Non-

Polarizing Beam Splitters: Split light by intensity rather than polarization; used in laser systems and imaging applications. Prices vary depending on coating and substrate quality. Fiber Optic 1: 2 Splitters: Passive fiber splitters, such as the NVIDIA MFP7E20-N007, are used in high-speed data centers to split signals between two servers.

Refurbished units may cost a few hundred dollars, while new high-performance models can be more expensive.



Geometry and Construction

Cube vs Plate: Cube beam splitters are more robust and easier to mount, often slightly more expensive than plate types. Plate splitters may be cheaper but can introduce beam displacement or ghosting. **Pellicle Splitters:** Ultra-thin membranes that minimize beam offset and ghosting; typically higher priced due to delicate construction.

Wavelength and Coating

Splitters designed for specific wavelengths (e.g., 980 nm, visible, or IR) or with anti-reflection coatings can significantly affect cost. High-precision coatings for laser applications increase the price.

Additional Features

Connectors, polarization-maintaining fibers, or pre-mounted cubes compatible with lens tube systems can add \$50–\$200 to the base price.

Typical Price Ranges

Standard plate or cube beam splitters: \$50–\$150
Polarizing beam splitters: \$100–\$300
Fiber optic 1: 2 splitters: \$150–\$500 (depending on length, connectors, and data rate)
Specialty or high-precision splitters: \$300+ For exact pricing, it is recommended to check suppliers like Thorlabs, Edmund Optics, Fibermart, or TES IT Solutions for the specific model and configuration you need.

Article Content

Thorlabs · Optical Beamsplitters

Thorlabs offers a wide range of optical beamsplitters. Our plate beamsplitters have a coated front surface that determines the beam splitting ratio while the back

Optical Beamsplitters | Beamsplitter Selection | Edmund

Light can be split by percentage of overall intensity, wavelength, or polarization state. Edmund Optics offers plate, cube, pellicle, polka dot, or specialty prism

Beam Splitters - Buyer's Guide & Supplier List | RP

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

Beamsplitters | Optics | DigiKey

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Beam Splitters and Combiners — FindLight

Browse Beam Splitters and Combiners for fiber-optic light transport. Compare specs, vendors, and request quotes directly on FindLight.

Beam Splitters

When working with lasers, it is often necessary to split a laser beam into two or more defined partial beams. There are a variety of beam splitters for these applications, with different advantages and

Optical Beamsplitter

A beamsplitter is an optical component used to split a beam of incident light into two parts in a laser or illumination system. Cube beamsplitters consist of a pair of precision right-angle prisms carefully

Beam Splitter Selection Guide

An Optical Beamsplitter is an optic or optical device that is used to split a beam of light in two. Newport offers a wide variety of Beamsplitters in various shapes.

Plate and Laser Beamsplitters | Edmund Optics

Edmund Optics offers a wide variety of Beamsplitters, including Plate Beamsplitters designed for Ultraviolet (UV), Visible, or Infrared (IR) applications. Ultraviolet (UV) Plate Beamsplitters are ideal for

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05BC15PH.13 Cube Beamsplitter

The 05BC15PH.13 High-energy Polarizing Cube Beamsplitter provides efficient narrowband polarization for use with Nd:YAG lasers. Each polarizer consists of a pair of precision right-angle prisms optically

Thorlabs · FiberBench Polarization Modules

Thorlabs offers several polarization modules that can be used with our FiberBenches. Each module has two dowel pins on its base that precisely align it on a FiberBench. The Rotating Linear Polarizer

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CIN City: exploiting genomic chaos to increase radiation response Editor in Chief Dr. Sue Yom co-hosts with Biology Editor Dr. Henning Willers, Associate Professor at Harvard Medical School and Director

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Metaphor

Definition, Usage and a list of Metaphor Examples. Metaphor is a figure of speech which makes an implicit, implied or hidden comparison between two things

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