How much does a set of beam splitter equipment cost



Overview

Beamsplitters | Optics | DigiKeyShop DigiKey's large in-stock selection of Beamsplitters. View inventory, pricing and order now for same day shipping! Beam.

Key Takeaways

Beam splitters typically range from $20 for basic plate types to several hundred dollars for high-precision or specialty designs. Price Ranges by TypeStandard Plate Beam Splitters: These are the most affordable, often costing $20–$100 depending on size, coating, and material (glass, AR-coated, or metallic). Cube Beam Splitters: More robust and precise, cube splitters generally cost $50–$300, with higher-end versions for laser or interferometry applications exceeding $500.

Pellicle Beam Splitters: Ultra-thin membrane types are specialized for minimal beam distortion and high-speed applications, typically priced $100–$400. Dichroic or Polarizing Beam Splitters: These specialized splitters, which separate light by wavelength or polarization, can range from $100 to over $500, depending on wavelength range, coating quality, and size.

Factors Affecting Cost

Material and Coating: Dielectric coatings are more expensive than metallic coatings due to lower absorption and higher efficiency. Anti-reflection coatings for UV, visible, or IR ranges also increase cost. Precision and Tolerance: High-precision splitters for interferometry or laser systems require tight tolerances, increasing manufacturing complexity and price.

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Size and Geometry: Larger diameters or custom shapes (e.g., 50mm vs. 25mm) raise costs. Cube splitters are generally more expensive than plate splitters of the same size.

Bulk Orders: Purchasing multiple units can reduce per-unit cost, especially from suppliers like Andover or Alibaba.

Summary

For general laboratory or educational use, a basic plate splitter around $20–$50 is sufficient. For laser experiments, interferometry, or high-power applications, expect to pay $100–$500+ for cube, polarizing, or dichroic splitters. Always consider the splitting ratio, wavelength range, and polarization requirements, as these directly influence both performance and price.

Article Content

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Beamsplitter

Beamsplitters operate by splitting light based on reflection/transmission (R/T) ratios or specific properties like polarization or wavelength. Available in cube and plate configurations, these versatile

Beam Splitters – Buyer''s Guide & Supplier List | RP Photonics

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

Optical Beamsplitters | Beamsplitter Selection | Edmund Optics

Beamsplitters are optical components used to split input light into two separate parts. Beamsplitters are common components in laser or illumination systems. Beamsplitters are also ideal for fluorescence

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Laser Beam Splitter

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Explore a wide range of our Laser Beam Splitter selection. Find top brands, exclusive offers, and unbeatable prices on eBay. Shop now for fast shipping and easy returns!

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

Beam Splitters from the leading manufacturers are listed below. Use the filters to narrow down on products based on your requirement. Download datasheets and request quotes for products that you

Beam splitter, Beamsplitter

Find your beam splitter easily amongst the 62 products from the leading brands (COHERENT, Rototherm, Lumibird, ...) on DirectIndustry, the industry specialist for your professional purchases.

Cube Beamsplitters

Cube Beamsplitters are durable, easy to mount Beamsplitters that feature equal optical path lengths. Edmund Optics offers the world''s largest inventory of off-the-shelf optical components, including a

Optical Beamsplitters | Beamsplitter Selection | Edmund

Standard Beamsplitters, which split incident light by a specified ratio that is independent of wavelength or polarization state, are ideal for illumination

What Are Optical Beam Splitters?

What Are Optical Beam Splitters? Key Takeaways Beam splitters, essential for applications such as teleprompters and holograms, have different types that play a vital role in splitting light beams, while

Observatory Version of Misc Musings, Ravings, and Random Thoughts

Hank Green posted a video a few months ago where he discusses these issues broadly. Openly admitting he isn''t a domain expert in data center water usage, he DOES use his qualifications

Beam Splitters – optical power splitter, beamsplitter, thin-film ...

Beam splitters are devices for splitting a laser beam into two or more beams. There are different types, including polarizing and non-polarizing versions.

What Is a Beam Splitter? Types, Uses, and How It Works

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A non-polarizing beam splitter divides light purely by power: it sends a set percentage in each direction regardless of how the light is vibrating. A polarizing beam splitter, by contrast, sorts the light by its

Beam Splitter

4.1 Beam splitters Metasurfaces are a solution to the existing problems of conventional beam splitters composed of natural materials [14, 206–212] which impose a relatively high cost, large loss and

Beam Splitter

A beam splitter is defined as an optical device that effects a linear transformation of fields presented at two input ports, producing output beams that are related to the input fields in a characteristic manner

How does a beam splitter work? Common types and use cases

Understanding Beam Splitters Beam splitters are essential optical components used to divide a beam of light into two or more separate beams. They play a crucial role in various scientific,

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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