How much should a beam splitter cost

Overview

Beam Splitters – Buyer's Guide & Supplier List | RP This buyer's guide for beam splitters provides technical background, comparison of major types, selecti.

Key Takeaways

Beam splitters typically range from $20 to over $500 depending on type, size, and optical specifications. Price Ranges by TypeCube Beam Splitters: Commonly used in laser systems and microscopy, these are formed by two prisms glued or optically contacted. Standard non-polarizing cubes usually cost $50–$200, while high-precision or polarizing cubes can exceed $300–$500.

Plate Beam Splitters: Flat glass plates with partial reflective coatings, often cheaper than cubes, typically $20–$150 depending on size and coating. Pellicle Beam Splitters: Ultra-thin membranes used for minimal beam displacement, often in interferometry, can cost $100–$400. Fiber Optic Splitters: For splitting light in fiber systems, prices vary by split ratio and wavelength, generally $30–$150 for standard 1x2 or 1x4 splitters.

Factors Affecting Cost

Polarization: Polarizing beam splitters are more expensive due to specialized coatings that separate s- and p-polarized light. Wavelength Range: Splitters designed for UV, visible, or IR ranges with anti-reflection coatings cost more than standard visible-range devices. Splitting Ratio: Custom ratios (e.g., 30/70, 90/10) or broadband dichroic splitters increase price.

© 2026 ALFA PRO COMMUNICATION SYSTEMS (Pty) Ltd - All rights reserved

Size and Aperture: Larger optical apertures or thicker substrates increase material and manufacturing costs. Precision and Coatings: High-precision optical surfaces, low wavefront distortion, and dielectric coatings for minimal loss add to the cost.

Where to Buy

Thorlabs: Offers cube and plate beam splitters with polarizing and non-polarizing options. Edmund Optics: Wide selection including dichroic, polarizing, and non-polarizing splitters with various coatings.

Cables Plus US

A: Specializes in fiber optic splitters for telecommunications and lab use.

Digi

Key: Provides in-stock beam splitters for immediate purchase, including cubes and plates. In summary, a basic non-polarizing cube or plate splitter can be purchased for around $20–$100, while specialized polarizing, dichroic, or high-precision splitters can cost several hundred dollars. The final price depends heavily on optical specifications, size, and intended application.

Article Content

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.

Optical Beamsplitters | Beamsplitter Selection | Edmund Optics

Light can be split by percentage of overall intensity, wavelength, or polarization state. Edmund Optics offers plate, cube, pellicle, polka dot, or specialty prism Beamsplitters in a variety of anti-reflection

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

Buy In Bulk Beam Splitter Price High-Precision Optical Quality ...

Discover beam splitters with competitive pricing, ideal for optical and fiber-optic applications. Explore AR-coated glass and ZnSe options, 50% reflectivity, 3-year warranty.

Beam Splitters – Infrared Optics Supply

© 2026 ALFA PRO COMMUNICATION SYSTEMS (Pty) Ltd - All rights reserved

Our plate Beam Splitters are used to split incident light into two separate beams at a specified ratio. Sometimes called Partial Reflectors or used as output couplers,

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 surface is wedged and AR coated in

Beam Splitter Selection Guide

Circular beamsplitters, plate beamsplitters and cube beamsplitters can be purchased for polarizing or non polarizing beamsplitting applications. Newport offers both broadband and laser line cube

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

How to Select the Perfect Beam Splitter for Your Optical Setup

The amount of reflected and transmitted light depends on the beam splitter''s design and coating. This allows you to control the light distribution in your optical setup. Types of Beam Splitters:

Beamsplitters: A Guide for Designers | Optics

These are rugged beamsplitters that are easy to mount and are ideal for beam superposition applications. This type of beamsplitter deforms much less when subjected to mechanical stress than

How Much Does a Log Splitter Cost? [With Price Range

So, how much does a log splitter cost? Log splitters, on average, cost about $1,000. The smaller manual log splitters can cost as little as $70 and up to $200 for the

Cost of beam splitters for commercial laser system : r/Optics

Cost of beam splitters for commercial laser system Hi all, I''m an engineering student working on a laser system project. The system requires a few (50/50) beam splitters, of which I''ve decided to use a

How Much Does It Cost to Install a Steel Beam? [2025 Data]

Cost Overview: Professional steel beam installation costs between $1,244 and $5,505, with your beam materials running $6 to $20 per linear foot. Beam size and the complexity of your

© 2026 ALFA PRO COMMUNICATION SYSTEMS (Pty) Ltd - All rights reserved

Beam Splitter

However, to use a metasurface-based beam splitter in real world applications, many problems should be solved such as, low efficiency, narrow operation band, high fabrication cost, and a suitable working

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.

How Much Does It Cost To Build A Wood Splitter?

If you have a lot of firewood to split or are looking for a DIY project, building your own wood splitter can be an affordable option. However, before jumping into the project, it''s important to

How Much Does Beam Installation Cost [2026 Data]

Beam installation costs are an important consideration if you''re building a home or doing renovations. Learn about average costs and factors in this guide.

Beam Splitters

Beam splitter cubes can be used for simple light beams, and also for beams carrying images, e.g. in various types of cameras and projectors. Cube beam splitters cannot tolerate high optical powers as

Contact Us

Continue your research online:

Website: https://alfa-pro.co.za
Technical inquiry: https://alfa-pro.co.za/contact.html

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

© 2026 ALFA PRO COMMUNICATION SYSTEMS (Pty) Ltd - All rights reserved