

Price of a beam splitter flange



Overview

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Key Takeaways

Beam splitter flange connections typically range from \$50 to several hundred dollars depending on type, material, and specifications.

Pricing Overview

The cost of a beam splitter with a flange connection depends on several factors: Type of beam splitter: Cube, plate, pellicle, or fiber-based splitters have different manufacturing costs. Cube and plate splitters are most common, with cubes generally more expensive due to precise prism alignment and coatings. Material and coatings: AR-coated glass, ZnSe, or dielectric coatings affect price.

High-power or broadband coatings increase cost. Splitting ratio and polarization: Standard 50/50 splitters are cheaper, while specialized ratios (70/30, 80/20) or polarizing/non-polarizing designs are more expensive. Mechanical features: Flange connections, adjustable mounts, or integrated photodiodes add to the price.

Flanged fiber splitters or modules with multiple outputs can cost several hundred dollars. Supplier and quantity: Bulk orders reduce per-unit cost, while single high-precision units from specialized optics suppliers are more expensive.



Typical Price Ranges

Standard plate or cube beam splitters: \$50–\$200 for small optics (10–25 mm) with basic AR coatings. High-precision or fiber-coupled splitters with flange connections: \$200–\$600 depending on wavelength range, power handling, and number of outputs. Custom or high-power units: Prices can exceed \$1,000 for specialized coatings, large apertures, or multi-channel fiber modules.

Recommendations

Check suppliers like Edmund Optics, DigiKey, or Alibaba for current pricing and availability. Specify wavelength range, splitting ratio, and flange type when requesting quotes to get accurate pricing. Consider whether a fiber-coupled or free-space flange is required, as this significantly affects cost.

By considering these factors, you can estimate the price of a beam splitter with a flange connection and select the appropriate supplier for your optical system.

Article Content

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Optical Beamsplitters | Beamsplitter Selection | Edmund

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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.

beam splitter Price

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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

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

