

Price of a 16-beam splitter

Article Overview

A 1-to-16 optical beam splitter is a specialized component, and prices typically range from several hundred to several thousand USD depending on specifications and manufacturer.

Overview

A 1-to-16 beam splitter divides a single input beam into 16 output beams, which is more complex than standard 50:50 or 1-to-2 splitters. These devices are often used in fiber-optic networks, laser distribution systems, or advanced photonics experiments. The cost depends on:

- o Type of splitter: Cube, plate, pellicle, or fiber-based.
- o Material and coatings: AR-coated glass, ZnSe, or dielectric coatings affect transmission efficiency and durability.
- o Wavelength range: UV, visible, or IR operation can influence price.
- o Precision and uniformity: High-precision splitting ratios and low insertion loss increase cost.

Typical Pricing

- o Standard 1-to-2 or 1-to-4 splitters: Usually \$50-\$500 depending on quality and coating .
- o High-split-ratio devices (1-to-16): Often custom-made, with prices ranging from \$500 to \$5,000 or more depending on optical quality, substrate, and coating .
- o Bulk or industrial orders: Prices may decrease per unit if ordering multiple devices.

Where to Source

- o Thorlabs and Edmund Optics offer a wide range of beam splitters, including custom options for high-split ratios .
- o DigiKey and Alibaba provide both standard and bulk-order options, with some suppliers offering custom AR-coated or fiber-coupled 1-to-16 splitters .
- o For precise pricing, it is recommended to contact suppliers directly with specifications such as wavelength, power handling, and splitting uniformity.

Recommendation

Because 1-to-16 splitters are not standard off-the-shelf items, obtaining a custom quote is the most reliable way to determine the exact price. When requesting a quote, provide:

- o Input wavelength and power

Price of a 16-beam splitter

- o Desired splitting ratio uniformity
- o Substrate and coating preferences
- o Mounting or packaging requirements This ensures the supplier can provide an accurate price and delivery estimate.

Beam splitters take on many forms; cubes, plates, hexagons, pentagons, polarizing, non -polarizing (usually somewhere in between),

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

These cube beamsplitters consist of a pair of precision right-angle prisms carefully cemented together to minimize wavefront distortion.

Find your beam splitter easily amongst the 62 products from the leading brands (COHERENT, Rototherm, Lumibird, ...) on

The best beam splitter for most optical applications is a high-quality cube beam splitter made from precision glass, offering balanced

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

Plate beamsplitters split incident light into two beams of differing wavelengths. Plate beamsplitters have the splitter coating on one

A beamsplitter is an optical component used to split a beam of incident light into two parts in a laser or illumination system. Cube

A beam splitter, or beamsplitter, is an optical component used to divide incident light into two separate beams based on wavelength,

Our plate beamsplitters have a coated front surface that determines the beam splitting ratio while the back surface is wedged and AR

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

Find here Beam Splitters, Beamsplitter manufacturers, suppliers & exporters in India. Get



Price of a 16-beam splitter

Explore our collection of optical cable splitters and PON splitters for sale. Optical beam splitters are used to

Discover beam splitters with competitive pricing, ideal for optical and fiber-optic applications. Explore AR-coated glass and ZnSe

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

NEEWER Teleprompter X16 with RT113 Remote & App Control, 16" Beamsplitter, Aluminum Alloy

Web: <https://bssoda.pl>

