

There are multiple box-type beam splitters



Overview

Dichroic Beamsplitters, which split light by wavelength, are often used as laser beam combiners or as broadband hot or cold mirrors. a laser beam) into two (or sometimes more) beams, which may or may not have the same optical power (radiant flux). Different types of beam splitters exist, as described in the. Beamsplitters are optical components used to split input light into two separate parts. Light. Thorlabs offers a wide range of optical beamsplitters. Our selected suppliers can manufacture almost any design including coatings for light in the visible (400nm – 700nm), NIR (700nm – 1100nm) or IR (1100nm – 1600nm) range and AR coatings. It is a crucial part of many optical experimental and measurement systems, such as interferometers, also finding widespread application in fibre optic telecommunications.



Article Content

Oct 24, 2025

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 ...

May 28, 2026

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

While most beam splitters have only two output ports, there are also beam splitters with multiple outputs. They may be realized, for example, based on diffractive optics.

Oct 16, 2025

Optical Splitters: Split Ratios, Splitting Architectures & PON Network ...

The cascaded approach uses multiple splitters in “stages” to divide the signal—for example, a 1:4 splitter (Stage 1) feeds four 1:8 splitters (Stage 2), resulting in a total split ratio of 1:32.

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Beam Splitters

Cube beam splitters consist of two triangular prisms glued together. The beam is split at the interface, and the thickness of this layer can be adjusted to achieve the desired power splitting ratio. Cube ...

Sep 18, 2025

Beam Splitter Selection Guide

Newport offers a wide variety of Beamsplitters in various shapes. Circular beamsplitters, plate beamsplitters and cube beamsplitters can be purchased for polarizing or non polarizing beamsplitting ...

Oct 05, 2025

Precision Beamsplitters & Quad-Channel Imaging ...

Our selection includes plate and cube designs, offering polarizing, non-polarizing, and dichroic options. All our custom beam splitters are made from premium glass, ...

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Precision Beamsplitters & Quad-Channel Imaging Systems | Shanghai Optics

Our selection includes plate and cube designs, offering polarizing, non-polarizing, and dichroic options. All our custom beam splitters are made from premium glass, ensuring superior surface quality and ...

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Optical Beamsplitters » Artifex Engineering

Beamsplitter cubes offer the advantage that the reflected and transmitted light have the same optical path length and there is no beam offset of the transmitted light.

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Beam splitter

Beam splitters are sometimes used to recombine beams of light, as in a Mach-Zehnder interferometer. In this case there are two incoming beams, and potentially two outgoing beams.

Jan 05, 2026

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 ...

Aug 07, 2025

Beamsplitters: A Guide for Designers | Optics

With the large variety of beamsplitters available, the designer needs to take many factors into consideration. This article and its illustrations will go a long way toward making the correct choice ...

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://ntmmgroup.co.za>

Email: sales@ntmmgroup.co.za

Phone: +27 82 471 2596

Address: Unit 7, Optic Park, 24 High-Tech Lane, Century City, Cape Town,
7441, South Africa

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