

Is a beam splitter also called a beam splitter



Article Overview

A beam splitter is also called a beamsplitter, power splitter, or, in specific forms, a pellicle mirror or half-silvered mirror.

Common Synonyms

- Beamsplitter: The most widely used alternative spelling, often seen in scientific literature and optical equipment specifications .
- Power splitter: Emphasizes the device's function of dividing optical power between two or more beams .
- Pellicle mirror: A very thin, partially reflective mirror used in photography and precision optics, functioning as a type of beam splitter .
- Half-silvered mirror: A mirror coated with a thin metallic layer that reflects part of the light and transmits the rest, commonly used in optical experiments .

Specialized Types

- Cube beam splitter: Constructed from two triangular prisms cemented together, often used in interferometers .
- Plate beam splitter: A flat glass plate with a partially reflective coating, typically at a 45° angle of incidence .
- Polarizing beam splitter: Splits light into beams of orthogonal polarization states, such as with a Wollaston prism .
- Dichroic beamsplitter: Separates beams based on wavelength, transmitting certai...

Article Content

Feb 14, 2026

All You Need to Know About Beam Splitters

Beam splitters are also essential for generating holograms and similar optical illusions. They segregate light from an

Feb 04, 2026

All You Need to Know About Beam Splitters

At its essence, a beam splitter is a device that can direct light into two unique paths. Most beam splitters are

Aug 04, 2025

Optical Beam Splitter Guide: Cube, Plate & Polarizing Types

Beam splitter technologies can be categorized according to their construction and optical behavior, including cube beamsplitters,

Sep 27, 2025

An Introduction to beam splitter

A beam splitter is an optical element that splits incident light into two beams of the same wavelength or two beams of different

Dec 02, 2025

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

A beam splitter (or beamsplitter, power splitter) is an optical device which can split an incident light beam (e.g. a laser beam) into two

May 24, 2026

Covering the Basics of Beamsplitters — Firebird Optics

Beamsplitters (also known as beam splitters or power splitters) are an optical component used to split an incident beam

Sep 26, 2025

Photonics 101

Usually, a non-polarizing beam splitter will split the beam on a 50/50 ratio while a polarizing beam splitter tends to

Mar 07, 2026

Beam Splitting

Beam splitting is defined as the process of dividing an incident light beam into two or more separate beams, which can be achieved

Jul 26, 2026

Optical Splitters Demystified: The Silent Heroes Powering Your FTTH ...

An Optical Splitter, also known as a beam splitter, is a passive optical device that divides a single input optical signal

Mar 20, 2026

Beam Splitters: Types and Applications

Beam splitters find their application in a diverse array of fields, from teleprompters to robotics, impacting various technologies we rely

Sep 29, 2025

Diffraction beam splitter

7x7 matrix using green laser and diffraction beam splitter. The diffraction beam splitter (also known as multispot beam generator

Jan 26, 2026

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

Oct 05, 2025

Introduction To Splitters | Teledyne Vision Solutions

These devices could also be used in reverse, as a beam combiner. When comparing plate/mirror and cube

Aug 01, 2025

What Is a Beam Splitter and How Does It Work?

A beam splitter is an optical instrument that divides an incoming light beam into two or more separate beams. This

Mar 03, 2026

What is a Beam Splitter?

A beam splitter or power splitter is an optical device that can split an incident light beam e.g. a laser beam into two or

Aug 04, 2025

What are Beamsplitters?

Optical components that create two beams by splitting incident light are beamsplitters. Read more about the different types of

Nov 01, 2025

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

A beam splitter is an optical device that takes a single beam of light and divides it into two separate beams. One portion passes

May 30, 2026

What Is a Beam Splitter and How Does It Work?

They are also integral to advanced microscopes, where dichroic beam splitters separate excitation light from the fainter

Apr 15, 2026

Optical Beamsplitters Explained | Cube & Polarizing Types

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

Jan 22, 2026

Fiber-optic splitter

A fiber-optic splitter, also known as a beam splitter, is based on a quartz substrate of an integrated waveguide optical power

Oct 14, 2025

Beam Splitter

The beam-splitter directs a second beam of light to the sample where it is reflected. The two beams of light return to the beam-splitter

May 14, 2026

How Does a Beam Splitter Work? Types, Principles & Applications

Learn how beam splitters work, compare cube and plate designs, and explore applications in lasers, microscopy, and interferometry.

Feb 23, 2026

BEAM SPLITTER Definition & Meaning

The meaning of BEAM SPLITTER is a mirror or prism or a combination of the two that is used to divide a beam of

Dec 04, 2025

Beam Splitter

A conventional beam splitter is an optical component used to divide an incident beam into two or more beams by refracting or

Mar 16, 2026

Beam splitter

A beam splitter or beamsplitter is an optical device that splits a beam of light into a transmitted and a

Jul 06, 2026

Beam splitter | Description, Example & Application

A beam splitter is an optical device that splits a single beam of light into two or more beams. It is commonly used in

Contact Us

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

Website: <https://www.greatpremiersolutions.co.za>

Email: sales@greatpremiersolutions.co.za

Phone: +27 82 914 3675

Address: Unit 5, Silicon Heights, 22 Electron Avenue, Cape Town, 8001, South Africa

This document is for informational purposes only. Specifications subject to change without notice.

