

Disassembly of the beam splitter backlight



Overview

to dissasamble it, you need first to unscrew 1 or 2 minus screws on back side like showed with red fat lines. These two screws are beamsplitter "blockers". Then slide metal wing side DOWN. removing the bayonet mount?

), or do I have to go through the front / the sides ?

(I'd like to avoid touching the prisms accessible through the sides if at all possible, as their alignment. A beam splitter or beamsplitter is an optical device that splits a beam of light into a transmitted and a reflected beam. It is a crucial part of many optical experimental and measurement systems, such as interferometers, also finding widespread application in fibre optic telecommunications. Additionally, beamsplitters can be used in reverse to combine two different beams into a single one. One beam is typically reflected while the other is transmitted.



Article Content

Apr 07, 2026

Beamsplitters Guide: Principles, Types, and Applications

Beamsplitters play a central role in laser applications due to the low absorption and ability to separate a single laser beam into multiple individual

Apr 18, 2026

Beamsplitters: Divide, combine & conquer

The first class of beamsplitters we'll discuss can be used to split the power of a light beam into two separate paths. This is common in interferometry, imaging, and for

Jan 19, 2026

What Are Optical Beamsplitters? | Plate, Cube & Dichroic Types

In Summary Optical beam splitters are versatile devices, typically made of glass, used in separating or combining light beams. These optical components play a major role in the science and tech industry.

Dec 19, 2025

Precision Beamsplitters & Quad-Channel Imaging

A beam splitter (or beamsplitter) is an optical component used to split incident light into two separate beams, typically based on wavelength or polarity. This precise

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Photonics 101

As the name suggests, a beam splitter refers to an optical device which is used to split or divide a beam of light into two. A beam splitter is usually the cornerstone of most interferometers.

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How Beamsplitters Work: Principles and Applications

Beamsplitters are fundamental components in optical engineering, serving to precisely divide a single input beam of light into two distinct output beams. This division allows for the

Oct 04, 2025

BeamSplitters/Combiners

1.1.1 Doric Mini Cubes The Doric Mini Cube contains an optical system that separates a beam into two output beams. The Intensity Division model (Fig. 1.1) splits the input beam into two output beams of

May 16, 2026

What Are Optical Beam Splitters?

What Are Optical Beam Splitters? Key Takeaways Beam splitters, essential for applications such as teleprompters and holograms, have different types that play

Aug 13, 2025

How Beamsplitters Work: Principles and Applications

Learn how beamsplitters divide light using partial reflection and transmission, and explore their essential roles in modern optical systems.

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Beam Splitter Tutorial

A beam splitter is an optical device that divides an incoming light beam into two separate beams. One beam is typically reflected while the other is transmitted. The ratio of reflected to transmitted light can

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Beam Splitters: Explained

Beam splitters are a fundamental element in optical systems. Beam splitters are, in essence, optical components used to divide a single light source

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Beam Splitter 101

If your beam splitter is polarized, it will be taking unpolarized lighting and splitting it into two orthogonally polarized beams. This basically means that it's splitting it

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Beam splitter

A beam splitter or beamsplitter is an optical device that splits a beam of light into a transmitted and a reflected beam. It is a crucial part of many optical experimental

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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 through various structures, including metasurfaces that utilize phase

Sep 26, 2025

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 scientific and industrial applications.

Jun 10, 2026

Understanding Beamsplitters: Types, Principles, and

This article explores the fundamental principles and diverse applications of beamsplitters, detailing their different types and uses in fields such as optics

Nov 12, 2025

How to install a beam splitter on your slit lamp

Many people don't know what a beam splitter is and wonder if they need it or not to use a smartphone adaptor on the microscope or slitlamp.

Oct 01, 2025

How Does a Beam Splitter Work?

Discover how beam splitters precisely divide light, exploring their fundamental optical principles, diverse designs, crucial performance aspects, and wide-ranging real-world applications.

Jul 06, 2025

Transmission and Reflection by Beamsplitters

In addition to the task of dividing light, beamsplitters can be employed to recombine two separate light beams or images into a single path. This interactive tutorial

Jul 29, 2025

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 sometimes more beams, which may or may not have the same optical

Feb 06, 2026

What is a Beam Splitter, and What are Its Functions and

In the intricate realm of optics, a beam splitter stands as a fundamental and versatile optical component. It plays a pivotal role in

Apr 21, 2026

Minimum disassembly necessary to clean beam splitter

These two screws are beamsplitter "blockers". Then slide metal wing side DOWN. You will see beamsplitter. Then unscrew two fat screws which holds

Sep 26, 2025

Beam Splitter

A beam splitter is then used to pick off a small portion (2-10%) of the beam to sample the profile before passing the energy across two additional beam-turning mirrors and into a focusing lens.

Mar 17, 2026

How Do Optical Beam Splitters Work & Applications

In laser applications, multiple laser beam paths emerge from single beam distribution through use of diffractive beam splitters. The functionality is

Apr 26, 2026

Beam splitter

Overview Designs Phase shift Classical lossless beam splitter Use in experiments Quantum mechanical description Reflection beam splitters

In its most common form, a cube, a beam splitter is made from two triangular glass prisms which are glued together at their base using polyester, epoxy, or urethane-based adhesives. (Before these synthetic resins, natural ones were used, e.g. Canada balsam.) The thickness of the resin layer is adjusted such that (for a certain wavelength) half of the light incident through one "port" (i.e., face of the cube) is reflected and th

Oct 14, 2025

How Beamsplitters Work: Types, Mechanisms, and

Beamsplitters are capable of dividing the incoming light into several streams. A number of factors impacts this splitting process; for example, the

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Beam Splitters & Their Applications: Your Ultimate Guide

A beam splitter is an instrument that splits a light beam into two or more beams. In this blog post, we will discuss about beam splitters and their

Sep 25, 2025

Covering the Basics of Beamsplitters — Firebird Optics

Polarizing Beamsplitter While standard non-polarizing beamsplitters divide light by wavelength, a polarizing beamsplitter will split the incident beam

Aug 19, 2025

What are Beamsplitters?

Beamsplitters are optical components used to split incident light at a designated ratio into two separate beams. Additionally, beamsplitters can be used in reverse to

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