High-performance beam splitter equipment



Overview

Other beamsplitting solutions are available, including pellicle beamsplitters, crystal beamsplitters, Brewster Windows and wedged plates. Each variety is described below with some of their features and strengths. Beamsplitters for transmitting long wavelengths of light and reflecting short wavelengths. The precision fused silica substrate has been designed to minimize the additional optical path length a beamsplitter adds to an imaging or photonic. Excelitas offers a wide array of beamsplitters in plate, cube and custom multi-port configurations. Utilizing our proprietary adhesive-free Activated Covalent Bonding (ACB) technology, we produce highly robust assemblies which provide superior wavefront performance and high laser damage resistance.

Article Content

Beamsplitters Product Overview

With more and more high-resolution microscopy methods such as TIRF, STED, etc., the reduction of the wavefront error in the system plays a decisive role.

High-Performance Beamsplitters | Keysight

This document describes how Keysight''s family of high performance beamsplitters offers industry-leading polarization and beam control with low wavefront distortion.

Design and fabrication of the high-precision beam splitter with stress ...

© 2026 KENHARDT OPTICAL NETWORKS - All rights reserved

The beam splitter provides high transmittance (> 96%) at 1540.53 nm while maintaining high reflectance (> 99.5%) at 1563 nm. The fabrication process utilizes an electron beam ion

Thorlabs · Beamsplitter Guide

They are usually placed in a beam path at a 45° angle of incidence (AOI). The plates are coated with a thin film that reflects a portion of the beam while the rest is transmitted. The transmitted beam is

UV Plate Beamsplitters

Available in multiple transmission/reflection ratios, TECHSPEC® UV Plate Beamsplitters are ideal for fluorescence imaging, biomedical and pharmaceutical

Custom Beamsplitters

Custom Beamsplitters Excelitas offers a wide array of beamsplitters in plate, cube and custom multi-port configurations. Utilizing our proprietary adhesive-free

Beam Splitter Selection Guide

These beamsplitters are made from high grade glass materials with laser grade surface flatness and surface quality and have a tighter tolerance on the splitting ratio.

High Power Beam Splitters

Blue Ridge Optics'' High Power Beam Splitters are expertly designed to meet the demands of advanced laser systems and optical instrumentation. Constructed from high-grade fused silica, these splitters

Custom High-Precision Polarizing Beam Splitters

Choose our category of custom high-precision polarizing beam splitters, featuring high extinction ratio and ultra-smooth surface polish, ISO-certified quality.

Beam Splitters – Buying Guide & Supplier List | RP

This beam splitters buying guide provides technical background, comparison of major types, selection criteria, and an overview of suppliers.

G&H Products │ Beamsplitters | Plate and Cube

G&H manufacture plate and cube beamsplitters that have superior laser damage performance for each unique wavelength, split, and incident angle combination.

Optical Splitters Demystified: The Silent Heroes

© 2026 KENHARDT OPTICAL NETWORKS - All rights reserved

What happens if you use the wrong splitter? If you pick the wrong splitter, you may lose light or get poor results. The beam might not split as you

High-Performance Beamsplitters | Keysight

High-performance beamsplitters deliver precise optical solutions with superior durability and accuracy. Explore Keysight''s cutting-edge precision optics today!

Beam Splitters

When working with lasers, it is often necessary to split a laser beam into two or more defined partial beams. There are a variety of beam splitters for these

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 on daily. These unassuming

High-Performance Beamsplitters | Keysight

Non-polarizing beamsplitters are used in a variety of applications in optical instrumentation to distribute fractions of a laser beam to other optical sub-assemblies. The listed split percentage tells you the

Exploring Beam Splitters: Types and Applications

What Is a Beam Splitter? Working Principles, Types, and Applications Beam splitters play a critical role in modern optical technology, powering devices from teleprompters and holographic displays to fiber

ZnSe beam splitter for high power laser applications

ZnSe is a well known substrate in high power MIR applications, and with laser grade AR/AR coating Holo/Or laser beam splitters can withstand KW

Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

© 2026 KENHARDT OPTICAL NETWORKS - All rights reserved

Contact Us

Continue your research online:

Website: https://kenhardtprimary.co.za
Technical inquiry: https://kenhardtprimary.co.za/project-desk.html
African project coordination: Century City, Cape Town, Western Cape, South Africa

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

© 2026 KENHARDT OPTICAL NETWORKS - All rights reserved