

## Line beam splitter interface



### Overview

When integrated into specialised lenses, the beam splitter divides the incoming light into two paths: one beam illuminates the object, while the other is used for image capture. Thorlabs offers high-power, polarizing, beamsplitter cubes mounted in 30 mm cage system compatible housings with SM1-threaded ports. It enables uniform, shadow-free lighting by directing light along the same optical axis as the lens. Their extinction ratio is better than 1000:1, and they are recommended for use in pulsed laser systems and for purifying the polarization state in multimode lasers. S-polarized light is reflected at a 90° angle, while P-polarized light is transmitted. The beamsplitters consist of a pair of precision right angle prisms cemented.

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Many beam splitters have the form of a cube, where the beam separation occurs at an interface within the cube (Figure 2). Such a cube is often made of two triangular glass prisms which are glued ...



Laser line polarizing cube beamsplitters provide efficient, narrowband polarization for higher power lasers. Their extinction ratio is better than 1000:1, and they are recommended for use in pulsed laser ...



These non-polarizing cube beamsplitters are coated so that the s and p components coincide in reflectance at the wavelength of interest. This means that they will not change the state of ...



Discover high-performance lenses with integrated beamsplitters from Schneider-Kreuznach - ideal for splitting and redirecting light in optical systems.



They are designed for use at 405 nm, 633 nm, the 780 - 808 nm range, or with one of three major Nd:YAG harmonics (355 nm, 532 nm, or 1064 nm). The beamsplitting interface of these cubes has ...



Laser line beam splitters are used to separate a laser beam with a specific wavelength. By varying the design of the dielectric coating, it is possible to achieve a wide range of power splitting ratios ...



Right-angle prisms are matched in pairs to produce high quality laser line beamsplitting polarizers with superior wavefront quality in both transmission and reflection. The hypotenuse face of one prism is ...



TECHSPEC® Laser Line Polarizing Cube Beamsplitters are designed for many common laser wavelengths and have a high extinction ratio. These beamsplitters are designed for common diode, ...



Shanghai Optics manufactures a wide range of high-quality beamsplitters optimized for different applications. Our selection includes plate and cube designs, offering polarizing, non-polarizing, and ...



CASTECH offers a variety of Non-Polarizing Beamsplitters. Non-Polarizing Beamsplitters divide incident beam into a specific percentage without altering the S and P-polarization state.

## Contact Us

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