



CUBE BEAMSPLITTERS FOR USE IN UV, VIS AND NIR WAVEBANDS USED IN VARIOUS EQUIPMENT INCLUDING HIGH QUALITY CAMERAS

Knight Optical supply optical polarising and non-polarising beamsplitter cubes for use in the UV, Visible and NIR wavebands, typically used in applications such as high speed digital cameras and interferometry.



Our beamsplitter cubes are manufactured into various configurations such as: polarising and non-polarising and available with narrow, standard, and broadband coatings for the input and output windows.

The polarising cube beamsplitter will produce polarised light, where it reflects the s-polarised with the p-polarised being transmitted. The non-polarising cube beamsplitter will split a randomly polarised input beam into two orthogonal beams that are non-polarised.

Beamsplitters separate an incident beam into a reflected and a transmitted beam, usually at 50:50 or 33:67 ratios.

Splitting of beams can be dependent on wavelengths, polarisation or on intensity independent of the wavelength and polarisation. Beamsplitter cubes also have advantages over plate beamsplitters as there is no beam shift and can easily be integrated into an optical system with simple holders. Typical sizes range from 2mm to 50mm cubes and manufactured using suitable materials such as N-BK7, UV fused silica, calcium fluoride.

Components are individually tested in our state of the art metrology lab:

-  Varian Cary 5000 and UMA device is used to measure transmission, absolute reflection and scattering of optical components. The DRA device is fitted for testing complex beamsplitter components.
-  Agilent 660 FTIR spectrophotometer is used for testing reflection and transmission of coatings between 3.5µm and 45µm.

Our state of the art Metrology and Quality Assurance department ensure that each component is individually inspected and tested to ensure it meets your exact specification.

For more information or to place an order contact our multilingual technical sales team and discover how Knight Optical's high quality beamsplitters and service can improve your instrumentation and supply chain experience.



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