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KO | BRINGING QUALITY INTO FOCUS

Cube Beamsplitters for the Scientific Industry

Knight Optical can offer [Cube Beamsplitters](#) for use within the Scientific Industry.

We supply a range of Cube Beamsplitters for a range of applications. All individually QA checked and metrology tested for quality to ensure parts meet customer specification. Supplied in a range of sizes and shapes with custom coatings tailored to meet your individual applications.

Knight Optical supply precision optical components to customers in the scientific industry for use as components within spectrophotometers and interferometer. For interferometry, beamsplitters are used to separate light into two beams to compare a reference against a sample.

Cube beamsplitters offer some advantages over plate beamsplitters in that they don't suffer from ghost images and are easier to mount. Beamsplitters have long been used in experimentation of quantum theory and relativity theory can be used in the creation of quantum computers. They are also used in laser systems, auto correlators and are sometimes used in entertainment or commercial industries.

Our beamsplitters can be made with different transmission/reflection ratios (e.g. 50/50, 40/60, 33/67 etc.), and come in polarising and non-polarising depending on your needs.

Typical specs:

Material:	N-BK7 (or equivalent), UV Fused Silica
Wavelength Ranges:	Visible (400-700nm), NIR (630-1100nm), Telecom (1050-1700nm)
Dimensional Tolerances:	+/- 0.3mm
Parallelism:	< 3 arcminutes
Surface Quality:	<40-20 Scratch/Dig < 2 λ per 25mm PV@ 633nm
Coating:	AR coatings for application bandwidth on external surfaces Splitter coatings for application bandwidth on internal surfaces

All our Cube Beamsplitters are fully inspected on their quality in our ISO 9001 certified, state-of-the-art Metrology laboratory, using our Zygo Verifire Interferometer and Trioptics PrismMaster and Cary 7000 UMS. This allows us to work to the highest [QA standards](#) and meet the tolerance specifications on these **precision components**.

[Contact our technical sales team](#) to discover how Knight Optical's high quality Cube Beamsplitters and superior service can improve your instrumentation and supply chain experience.

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- [View our QA and metrology information](#)
- [Watch our Corporate Video](#)
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