



Discover how we can improve your
instrumentation and supply chain
experience today!

KO | BRING QUALITY INTO FOCUS

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Knight Optical ranges of custom Light Guides

Our ranges of custom light guides are available in a variety of materials. Currently we offer [BK7 or equivalent](#), Sapphire or equivalent and [UV Fused Silica light guides](#), in an assortment of diameters and thicknesses.

[Light guides serve](#) as the key element in cosmetic laser, or intense pulsed light (IPL) applications. IPL is commonly used for the removal of unwanted hair, as well as a range of other cosmetic applications. IPL applications make use of a variety of wavebands to target different chromophores. For this reason, our custom light guides are available in a choice of materials to suit your waveband requirement.

Knight Optical's custom BK7 or equiv light guides offer high internal reflection to minimize the loss of transmitted light. BK7 or equiv can offer over 90% transmission between 330 and 2000nm, which makes this material an excellent choice for IPL applications used to treat pigmentation, as the peak absorption of the human pigment melanin is 335nm. BK7 or equivalent is also recommended for its high homogeneity and low bubble and inclusion content.

Our custom UV fused silica [light guides](#) also provide over 90% transmission at 335nm and work efficiently down to 185nm, making them an excellent alternative to BK7 or equivalent for pigmentation treatment. In addition, our custom fused silica light guides offer high thermal conductivity and an increased laser damage threshold, both of which are essential for cosmetic laser applications.

Knight Optical also provide custom sapphire light guides, a common alternative to BK7 and fused silica. Sapphire is an extremely hard material, which offers increased durability and resistance to damage. Sapphire also provides excellent transmission over the entire visible and SWIR range.

Knight Optical supply high quality custom light guides made to your exact specification.

Contact our multilingual technical sales team and discover how Knight Optical's high quality custom light guides can improve your product and supply chain experience.
Bringing quality in to focus.

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