



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

## KO | BRINGING QUALITY INTO FOCUS

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### Homogenizing Rods for Fluorescence Imaging

**Knight Optical** can offer [Custom Homogenizing Rods](#) for use within [Fluorescence Imaging](#).

Knight Optical supply precision optical components to customers in the medical industry for applications such as fluorescence illumination, microscopy and imaging. Homogenizing Rods are used within the application of surgical procedures; within systems designed to help identify which tissues have been exposed to the fluorescent indicator.

The Light source will enter a light pipe at a variety of incident angles, which is designed to utilise its total internal reflection to channel the light from the entrance of the light pipe to the exit. The material's refractive index is the only factor which affects the light pipes critical angle; this defines the angle of acceptance which the total internal reflection will occur at. With this it helps to control the light source being used in medical systems.

#### Typical specs:

<b>Material:</b>	BK7, UVFS or Other Optical Glass
<b>Length Tolerance:</b>	+/- 0.3mm
<b>Aperture Tolerance:</b>	+/-0.1mm
<b>Surface Quality:</b>	<60-40 Scratch/Dig
<b>Coating:</b>	Optional

**All our Homogenizing Rods are fully inspected on their quality in our ISO 9001 certified, state-of-the-art Metrology laboratory**, using our Trioptic's PrismMaster, and Starrett AV300 Video Imaging System. 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 Homogenizing Rod and superior service can improve your instrumentation and supply chain experience.

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