



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

KO | BRINGING QUALITY INTO FOCUS

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Moulded Optics for UV Disinfection Systems

Knight Optical offers a range of [precision optical components](#) for use in UV Disinfection System applications. The most common usage of such systems is for water purification. This is harnessing specific wavelengths of a UV lamp which is then emitted and used as a germicide to cleanse water of pathogens such as *e. coli*, staphylococcus aureus and salmonella.

One such component are the quartz tubes which can be moulded or generated from a furnace. These tubes are typically used to house the UV lamps. This prevents the UV lamp from being exposed which in turn extends the longevity of the lamps and means that the lamps can be used under higher pressures. These lamps and tubes can also be used with UV eflectors which are light reflectors with a U channel or groove means that light which would normally be shined backwards is now harnessed in the correct direction.

Knight Optical provides tubes which are typically produced from quartz, borosilicate, float glass, Liba 2000, amongst other materials. This choice of material is down to its ability to withstand thermal stresses and those that can offer high transmission values.

All of Knight Optical's tubes are custom produced, ensuring all products are bespoke and fully compliant to the customer's requirements.

Typical specs:

Material: Quartz, borosilicate, float glass, Liba 2000
Dimensions: +/-0.25 mm
Surface quality: <60-40 scratch/dig

All our tubes are checked for quality in our state-of-the-art Metrology laboratory using our Starrett Video Imaging Device, allowing 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 Moulded Optics and superior service can improve your instrumentation and supply chain experience.

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