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KO | BRINGING QUALITY INTO FOCUS

Lithium Fluoride Windows for UV Applications

Knight Optical can offer [Lithium Fluoride Windows](#) for use within UV Applications.

We supply a range of lithium fluoride windows 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 using UV optics such as UV lasers. UV lasers are beneficial in some applications as opposed to longer wavelengths such as infrared or visible light as they do not heat the areas around the target. This allows the laser to cut materials by breaking atomic bonds, rather than melting the material.

Due to the large band gap for Lithium fluoride, its crystals are more transmissive to short wavelength UV radiation than any other material and are ideal for use in X-Ray monochromators, as for use in VUV, UV, Vis and IR spectrums.

Typical specs:

Material:	Lithium Fluoride (LiF)
Shape:	LiF Circular Windows, LiF Square Windows
Dimensional Tolerances:	+/- 0.1mm
Parallelism:	< 3 arcminutes
Surface Quality:	<60-40 Scratch/Dig < 0.5 λ PV@ 633nm
Coating:	Antireflective coatings for application bandwidth (if required) Typically BBAR @1-6μm Diamond-Like Carbon (DLC) coating @1-6μm

All our Lithium Fluoride Windows 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. 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 Lithium Fluoride Windows and superior service can improve your instrumentation and supply chain experience.

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