



LEADER IN PRECISION
OPTICAL COMPONENTS



KOTM SERVICE

Knight Optical prides itself on customer care and attention, and our staff are always happy to help, embodying an ethos that promotes technical excellence matched with customer service as being of paramount importance. We are proud of our continuous partnership with customers, helping them determine specifications, selection of materials and tolerances, with free technical advice.

Our sales teams comprise of physics and business graduates to help with technical issues, project management, advice and problem solving and are also multi-lingual in English, French, German, and Spanish.

Knight Optical supplies a large range of precision optical components, opto-mechanics and sub-assemblies to meet specific custom requirements, for scientific instrumentation. We also hold a large stock of over 2500 types of standard and customised components available to purchase via our ecommerce website for fast world-wide delivery to the following industry sectors:

-  Electronics and Optoelectronics
-  Engineering and Industrial Manufacturing
-  Instrumentation
-  Medical
-  Oil and Gas
-  Defence and Aerospace
-  Bio and Nano technology
-  University and Research Centres



OUR METROLOGY TESTING FACILITIES

In order to ensure we can always meet your tolerances and specifications, Knight Optical has invested a substantial amount of time and resources into this aspect of our business and have built an impressive testing and inspection department, run by highly trained expert staff with access to the latest state of the art metrology instruments.

Trioptics Optispheric with Wavesensor Reflex

We are able to test all lens parameters such as focal length (FL), back focal length (BFL), modulation transfer function (MTF), radius of curvature (ROC) and flange length (FFL). The motorised V-Block accessory allows us to test centration errors in transmission and reflection to less than 1 micron.



Trioptics Prism Master

For angular measurements to an accuracy of +/- 3 arc seconds (+/- 0.00083°).



Varian Cary 5000 spectrophotometer

With diffuse reflectance accessory (DRA) for testing of transmission/reflection specifications over 175-3000nm



Fisba Interferometer

This workstation allows us to measure flatness and single and double sided wavefront form error and to characterise optical surfaces precisely providing reports, data and certification on these qualities.



Starrett AV300 video imaging device

For measuring physical dimensions to an accuracy of +/- 0.1 µm.









KOTM QUALITY

At Knight Optical, quality control is of utmost importance and taken extremely seriously. We understand that if a drawing has a tolerance, surface specification and material type then the information is there for a reason. We will always ensure that all aspects of your drawing and specification are adhered to.

In order to meet your tolerances and specifications, Knight Optical has invested a substantial amount of time and resources into this aspect of our business. By going this extra mile, our customers get an excellent service and professional business relationship they can trust.

As part of our on-going investment in providing an excellent service, we have built an impressive testing and inspection department, run by staff trained to the highest level and who use the latest state of the art metrology instruments.

Knight Optical work to the highest quality. Our management systems, standards and guidelines all comply with ISO9001:2008. We also work to the following standards:

-  ISO10110 – Optical drawing standards
-  BS4301 – 1991, Preparation of drawings for optical elements and systems
-  MIL-C-14806A, Coating, reflection reducing for instrument cover glasses and lighting wedges
-  MIL-G-174B, Optical Glass



Testimonials

'May I say a big "Thank you" to yourself and your staff for manufacturing and delivering the Polarising windows to us on time. Our customer is visiting us on Friday to see the progress of the first build and testing of our cameras and it was imperative to meet this deadline.'

A customer that supplies to Tier 1 aerospace clients

'We received the mirrors yesterday, just had them in the rig - perfect! Many thanks for your perfect service.'

Stuart Bates
Astrophysics Research Institute
Liverpool John Moores University

'I just wanted to say thank you for delivering the order so quickly and it was exactly to specification. We will definitely do business with you again'.

Russ Toy
Source 1 X-Ray

'Just to let you know that the first batch windows arrived safely and appear to be excellent quality. Thanks very much keep up the good work'.

Colin North
Delphi Diesel Systems

'Absolutely, great product, outstanding service. Many thanks for the mirrors - fast and efficient as ever'.

David J Stevenson
EBM, Moscow





See our corporate video:
www.youtube.com/user/KnightOptical

Visit our website to discover our latest optical components: www.knightoptical.com

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