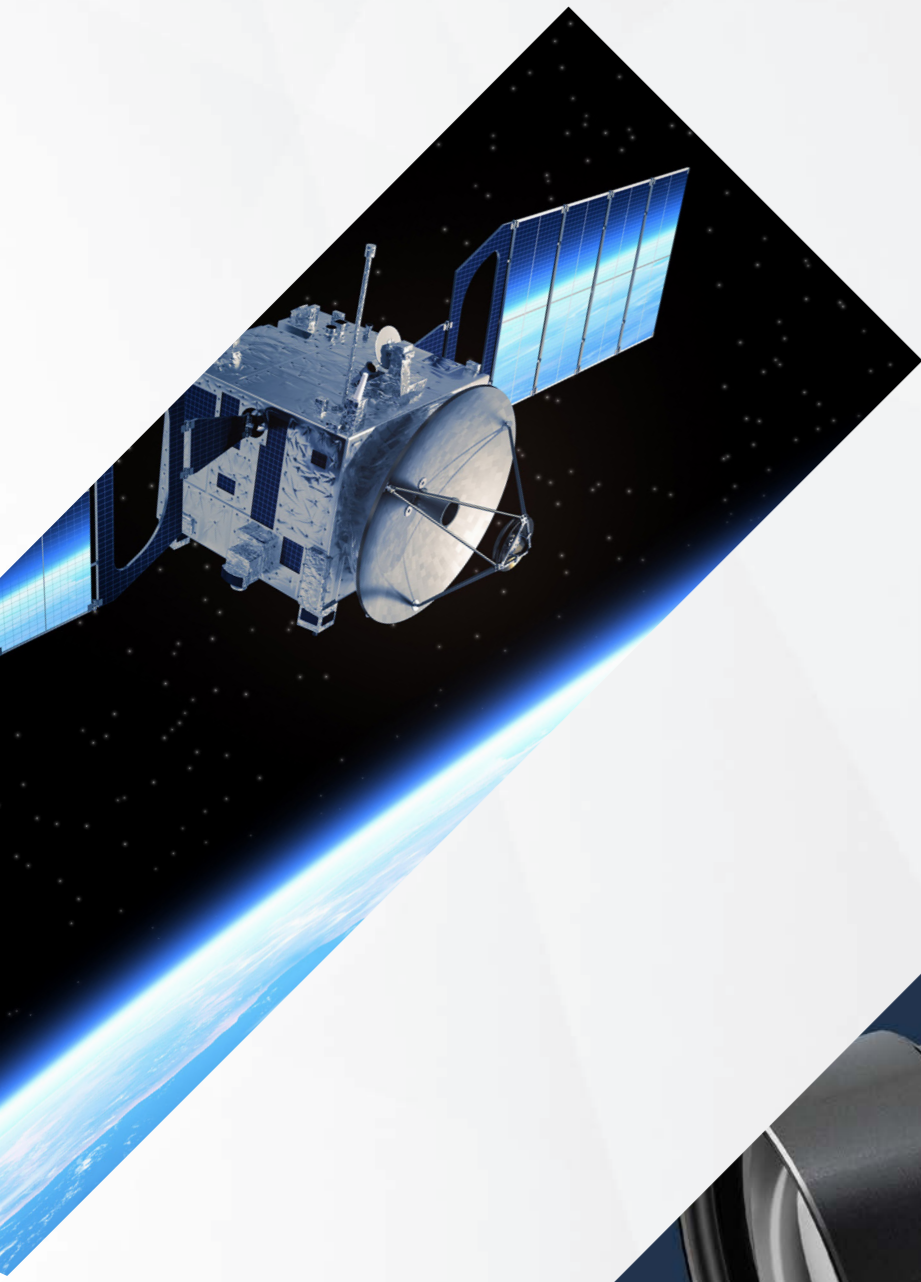




resolveoptics

CUSTOM
OPTICAL DESIGN,
MANUFACTURING
AND CONSULTANCY



About Resolve Optics

Resolve Optics Ltd has for over 20 years developed OEM quantity special lenses and optical designs for small and large high technology businesses. Our customers have benefited from our novel and economic optical solutions. Several are currently world leaders in their niche high technology markets.

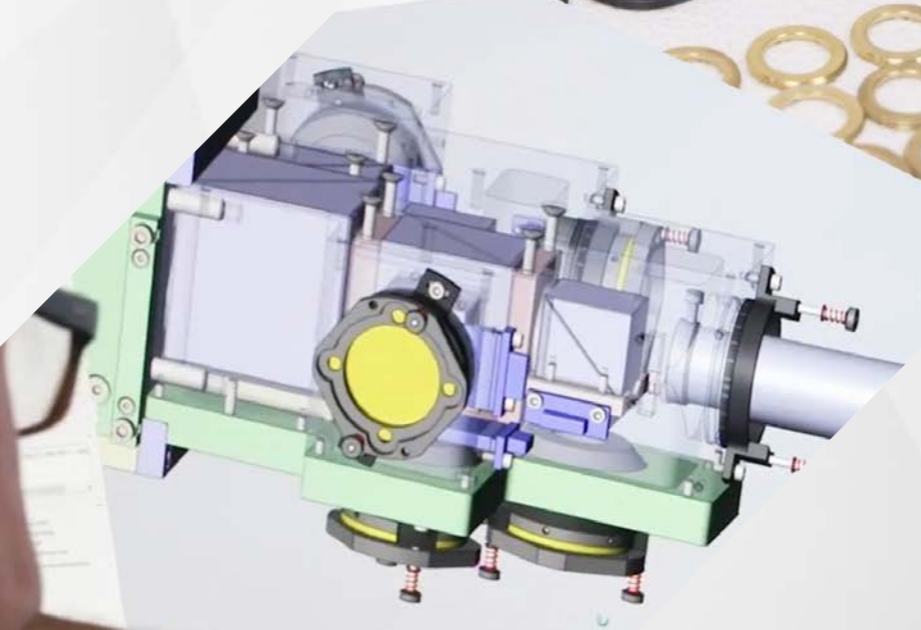
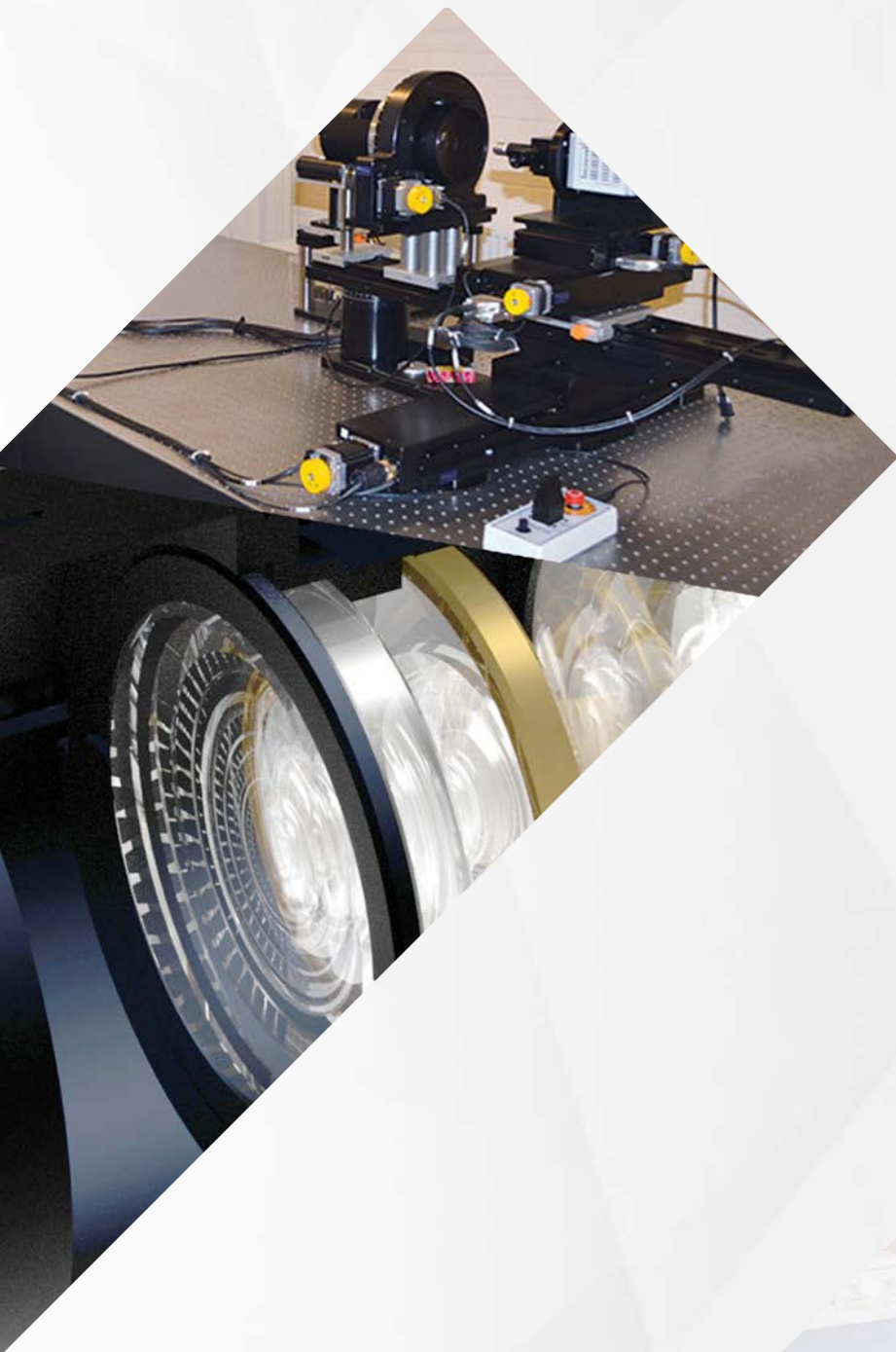
Drawing upon our experienced team of optical designers we are able to quickly gain an understanding of the basic physics of the technology associated with each customer's product enabling us to propose novel solutions. Our aim is to provide a fast and flexible optical and mechanical design assessment on all projects. A project engineer is assigned to closely liaise with customers at all points of a development to ensure complete satisfaction with the final product.



Why Resolve Optics?

Resolve Optics' continued growth and international reputation is based on a strong track record of running projects successfully, manufacturing production quantities of lenses and optical products on time, and achieving the specified quality and target price.

Resolve Optics has developed the rare capability to produce small quantities of high performance mounted lenses and optical products, with the professional look, feel and quality equivalent to the best professional photographic and broadcast TV lenses.



OEM Design & Manufacture

Resolve Optics Ltd has successfully developed many innovative and custom OEM products for our industry partners over the last 20 years. We welcome the OEM design and manufacture opportunity to develop, design or manufacture special lenses and optical products.

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Our designers employ the latest in Computer Aided 3D modelling along with many years experience in the design and manufacture of specialist lenses and optical products. It is here that quality and reliability are designed into our products. Advanced optical manufacturing and CNC machining technology is used to produce high quality components. In assembly, experienced workers build complete assemblies with care and attention to detail. All products are tested before leaving our factory to ensure your complete satisfaction. It is this blend of skills, experience and flexibility that have established Resolve Optics Ltd. As a leading manufacturer of special OEM lenses and optical products for a significant and growing portfolio of small and large high technology businesses.

To ensure the contamination-free status of the high precision lenses and optical systems it produces, Resolve Optics Ltd maintains a clean room facility. This enables elimination of airborne contaminants from the company's assembly area, thereby guaranteeing the highest quality product is delivered to customers.

Our Capabilities

At Resolve Optics we take a customer centric approach to OEM custom optical design and manufacture. We pride ourselves on nearly three decades of quickly translating each customer need into an optimised optical design, running projects successfully, and manufacturing production quantities of lenses or optical products on time, to the specified quality and target price.

But what makes us different?

Fast response

Our aim is in less than 1 week to provide you with a best fit solution to your target application with a preliminary optical design, approximate costs, and production feasibility considerations.

Quality assured

We are constantly looking at ways of improving product quality using a suite of in-house testing equipment and on-the-job training for our skilled production technicians. We use a next generation automated MTF lens testing system to test the performance of the lenses and optical systems we produce. This approach removes much of the variability of human involvement resulting in faster, more accurate and repeatable testing as well as improved product quality. In addition, our automated test centre can also measure distortion, focal length and register position. All this valuable quality information can be provided to customers with their finished lenses from our ISO9001-2015 and ISO14001 quality accredited facility here in the UK.

Security of supply

To safeguard your investment, once you have a custom lens that is designed and supplied by Resolve Optics, that lens will be available for as long as you require it. This provides you with guaranteed security of supply. Depending on the quantity you require per year you can also have design exclusivity, meaning nobody else can purchase your lens and you have secured that all important competitive edge that is not possible when selecting an 'off-the-shelf' lens.

Knowledgeable

Though we supply custom lenses and optical systems to customers operating in a broad array of different markets – we are internationally renowned for our expertise and knowledge of the aerospace and nuclear industries. Designing high performance optical systems for aerospace projects is something that we have done for over 20 years. Lenses that are used in aircraft and satellites must meet certain basic requirements to survive the temperature, mechanical, radiation and vacuum challenges that space places upon components and systems working in this remote environment. Our expertise in radiation resistant optical materials has made Resolve Optics the leading supplier of fixed and zoom lens for monitoring applications in nuclear reprocessing and power generation.

On receipt of a design enquiry our talented team of optomechanical design engineers starts with an in-depth review of the target application and performance specifications required of the custom optics. We ask additional questions about to gain a complete understanding of the project and overall business goals. On agreement of the project design specification, we become partners with a common goal to create a state-of-the-art optical solution tailored to your exact needs.

Our overall goal is to deliver to you optimised custom lenses and optical systems in a timely, cost-effective manner that fulfil your needs and help increase your competitive edge and profitability.



Zoom Lenses

Resolve Optics has the capability to design, develop and manufacture zoom lenses to meet the customers application requirements.

All Resolve Optics zoom designs feature focus tracking that enables focus to be maintained throughout the zoom range. Resolution to match or exceed the needs of the application or sensor. Compact designs to maximise the use of space. Lenses can be supplied with all function motorised or they can be supplied non-motorised. Zoom lenses can be designed for any sensor format or camera interface and to meet the demands of harsh environments.



UV, IR and SWIR Lenses

Ultraviolet and Infrared lenses can often be very expensive and it can be difficult to find a lens that meets your specific needs.

Of the many UV, IR and SWIR lenses Resolve Optics has designed over the years, all have been designed for specialised applications. From UV zoom lenses for inspection of spent uranium fuel rods in storage ponds to SWIR lenses for the Sorting industry, no application is too small or too big.

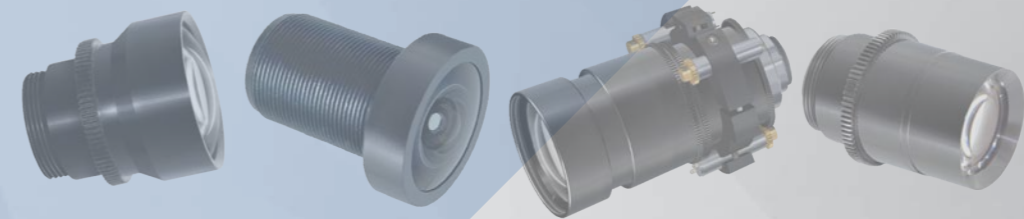
Resolve Optics thrives on the challenge of providing it's customers with the lenses they need to take their application into the future.



Radiation Resistant Lenses

Drawing upon approaching 30 years experience – Resolve Optics has built a strong reputation for specialist lens design and manufacture of smaller production quantities of radiation resistant lenses and optical products on time to strict quality and target price guidelines.

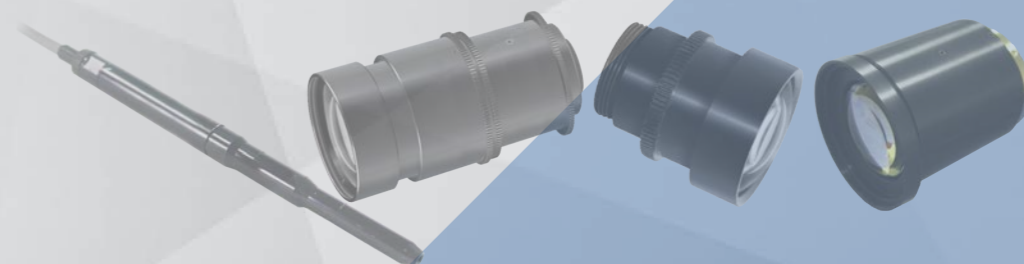
All optical elements within Resolve Optics radiation resistant (Non Browning) lens designs are made using cerium oxide doped glass or synthetic silica enabling them to withstand radiation doses of up to 100,000,000 rad without significant discoloration or degradation of performance. All Resolve Optics radiation resistant lenses provide high image resolution and minimum geometric distortion.

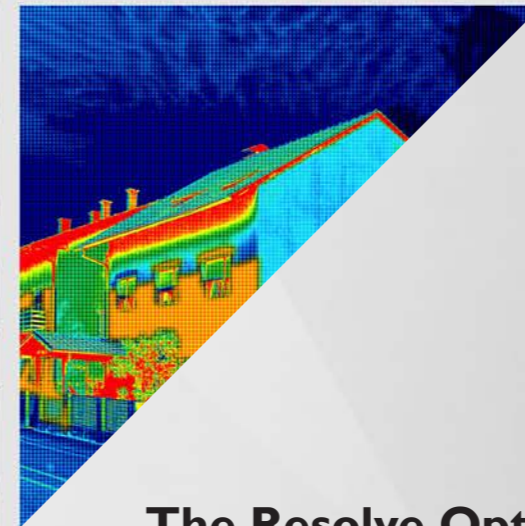


General Lenses

Optical systems are used throughout many industries and as their applications advance forward they will require better and better optics that meets and exceeds their optical requirements.

Resolve Optics is perfectly positioned to be able to design and manufacture lenses that are unique to your application or specification. Our aim is to provide our customers with competitive advantage and security of supply. Resolve can design for any wavelength, format size and resolution, our only constraint is Physics.





The Resolve Optics Design Service

Our product design service includes :-

Free design and development

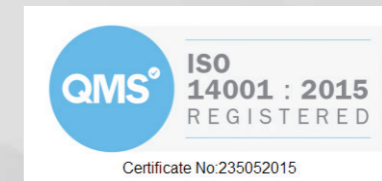
Optical and mechanical consultancy

Prototyping

Manufacturing

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