

BIOPHOTONICS

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WHITE PAPERS & APPLICATION NOTES



Medical Optics from Shanghai Optics

Optics is playing a key role in nearly every modern diagnostic advance, and devices that rely on optics are extensively used for medical research, diagnostics and treatment. Shanghai Optics is proud to manufacture high quality optics for medical devices and applications, and we are able to work with your team to design and produce custom medical device optics to fit your specific needs.



Our optics are used in medical and clinical research laboratories worldwide, in medical diagnostic applications (including micro endoscopy, optical coherence tomography (OCT), and PCR instruments), and medical treatment applications such as robotic surgery, and laser based ophthalmology. High performance optics in medical devices enable medical professionals to use most advanced techniques and provide the best diagnostic and treatment to those in need of help.

Challenges to Medical Optics Production

Producing optics in medical devices has its own unique difficulties and challenges. Each optical component must be correctly designed, properly manufactured, and produced to ensure that medical devices provide reliable and repeatable results with high accuracy in various environments. At the same time, optics in medical devices are often used in time-sensitive applications where a quick manufacturing turnaround is essential. A third factor that plays into medical device optics is cost, as neither medical providers nor treatment recipients are able to absorb high equipment bills.

Cost

While taking shortcuts is never permissible, medical services do have a unique sensitivity to the cost of optics used in medical diagnosis and treatment, which is often of necessity passed down to the individual receiving care. Medical research, while more flexible, finds itself under similar budgetary constraints.

At Shanghai Optics we work to ensure that each of our medical device optics are produced in a cost-efficient, budget sensitive manner. Extensive design and engineering experience combined with in-house manufacturing equipment allows us to achieve some of the highest benefit-cost ratios in the industry. Our design and engineering team, with more than 60 years of experience in medical device optics, is available to consult with you about the most cost effective manner to achieve your goals.



Timeline

Development of medical treatment devices and medical research is often conducted under strict time constraints. Not only does Shanghai Optics carry a wide selection of ready-to-ship lenses, filters and other optics for medical devices, we specialize in quick turnaround on custom medical optics orders.

While optical design and manufacturing process for advanced medical devices and applications is complicated and involves many steps, our design and engineering team can work with you to create the custom design and manufacturing process for producing the medical optics with high quality and in a short time, and help you accelerate the product development plans.

Performance

Fully reliable, high performance medical optics are crucial to both laboratory and clinical applications, as equipment failure could obscure key research findings and, in the case of clinical optics, lead to catastrophic results.

Medical Optics from Shanghai Optics

Producing optics for medical devices has its own unique set of difficulties and challenges including cost, turnaround time, performance, and standards. This paper talks about those challenges and gives two examples of medical device applications.

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