

SUPERIOR OPTICAL ENGINEERING.

INNOVATIVE TECHNICAL SOLUTIONS

FOCUSED COMMERCIAL APPLICATIONS

Optics 1's expertise in the optical sciences combined with core competencies in the design of electronics, mechanical solutions, software development, and system integration provides Optics 1 the background and experience to fulfill requirements for precision optical product design and manufacture.

- **Design of high precision and highly complex opto-mechanical assemblies employing photonic sensors.** Optics 1's capabilities in optics for imaging, illumination, and collection range across projects from simple to complex. Barrels, mounts and housings include manual and motorized adjustments and functions. No matter the industry, we provide a synergy between all disciplines and the customer to ensure appropriate performance requirements, practical build tolerances, and correct alignment architecture.
- **Turnkey solutions encompassing the design of user interfaces.** Optics 1's system level design and integration capability includes electrical, motion control, large structures, peripheral assemblies, and user interfaces. By acting as a partner rather than a supplier, Optics 1 is able to take ownership of the complete solution.
- **Precision assembly of deliverable hardware designed for users in both controlled and real-world environments.** Optics 1's in-house production capabilities provide the ability to build from component level up to full turnkey systems as well as performing on site critical alignment of optics, mechanics, and electromechanics. Verification can occur starting with incoming quality control and ending at acceptance testing.

Delivering Results

Optics 1 has repeatedly demonstrated success across widely varied market sectors.



Medical

An innovative solution utilizing wavefront measurements to quantify acceptance of ophthalmic consumables for use by a Fortune 50 biomedical firm.



Aerospace

A bolt-to-bolt higher performance replacement for an existing remote imager for a Fortune 500 company.



Industrial

A computed tomography multi-camera assembly utilized in a 9-MeV linear accelerator environment providing 65,000 levels of gray and 50 to 75 microns of resolution.



Research

A laser tweezer accessory for research microscopes that incorporates a fiber laser and spatial light for manipulation of objects as small as 2-5 microns.

Optics 1

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