

Everything you need to design optical systems

OpticStudio is the only optical design software to combine imaging, illumination and laser system design into one solution. Leaders in aerospace, astronomy, biomedical research, consumer electronics and machine vision rely on OpticStudio to create cutting edge design that gets to market faster.

Curiosity Mars Rover, optics designed using OpticStudio.

Design the entire optical product with OpticStudio



Optimize design performance

Advanced optimization algorithms maximize your system performance by automatically changing key parameters in your design, such as lens radii, thicknesses, and materials.



Ensure manufacturability

Best-in-class tolerancing combined with manufacturing yield statics ensures specifications are met with the correct production efficiency.



Dynamically control CAD parts

Production times improve when engineers import, optimize, and export CAD parts within OpticStudio to simulate and enhance the optical impact of mechanical designs.



Design to your exact specification

Create applications, write custom macros, and program any surface shape, phase, transmission function, or gradient index using our API and programming tools.


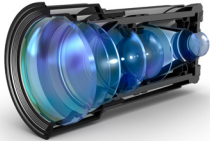
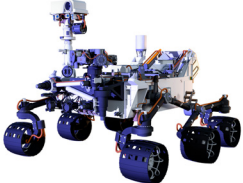
“I especially like the way OpticStudio includes both sequential and non-sequential capability in a single tool. The only thing better than the tool has been the support.”

David Keith, Independent Consultant in Optics and Applied Physics



Tailored to fit the needs of your projects

From sequential to non-sequential to top-of-the-line API and CAD integrations, only OpticStudio can design the entire optical product.

	STANDARD	PROFESSIONAL	PREMIUM
			
Best for designing	Lenses	Optical systems	Optical products
Industry-leading optimization	●	●	●
Tolerancing & manufacturing tools	●	●	●
Imaging & afocal design	●	●	●
Lighting & illumination design		●	●
Lasers & fibers		●	●
Stray light analysis		●	●
Phosphor & fluorescence modeling			●
CAD integrations			●
Simultaneous instances	2	4	8
Programming interface	Zemax Programming Language for low-level macro programming	Zemax Programming Language as well as API for full customization & automation	