

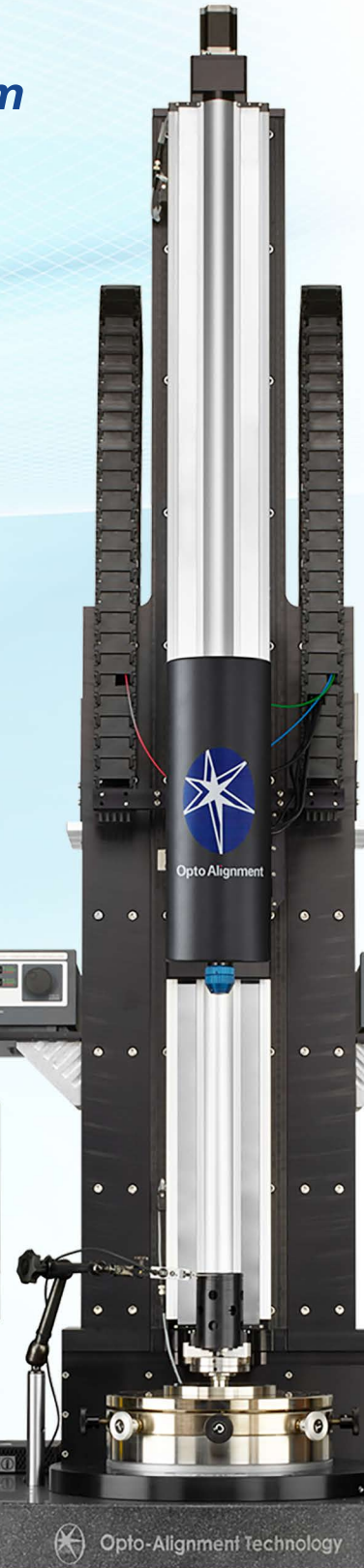
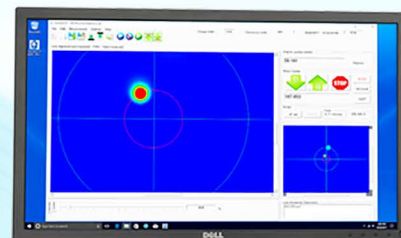


Opto Alignment

LAS-UP-IR™

Industry First 4-Color Alignment System

- The Most ACCURATE and POWERFUL IR Alignment System Available
- Alignment and Inspection of Larger IR Lens Assemblies with Sub-Micron Accuracy
- Quantum Cascade Laser with Single Mode Optical Fiber Transport
- Lens Thickness and Air Gap Measurement
- Red / Green / MWIR / LWIR Lasers
- Multi Lens Capable
- Optional Non-Contact TIR Sensor



Designed and Built in the USA

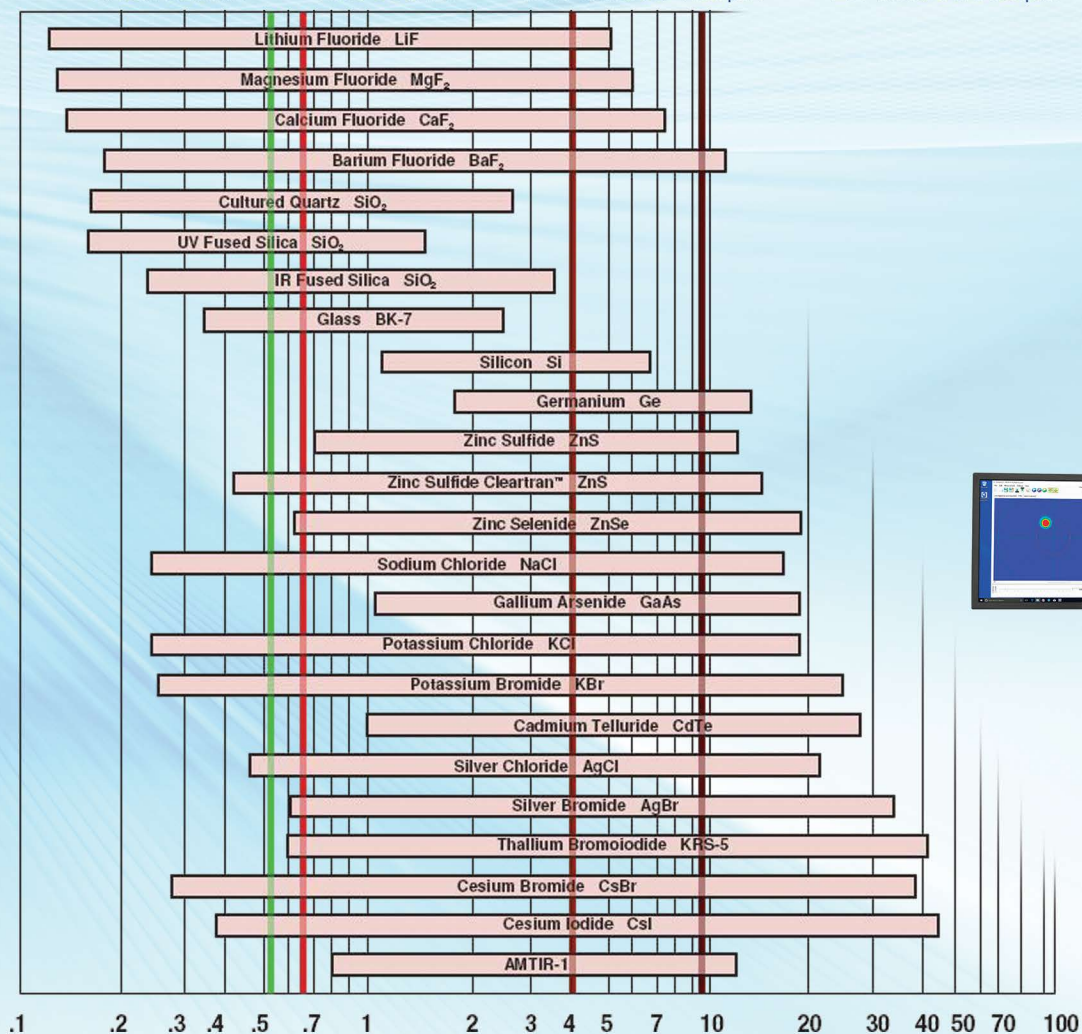


Alignment and inspection of assembled IR lenses is now possible at sub-micron accuracy with the IR Laser Alignment Station™. The LAS-UP-IR™ is designed as a dual use assembly/inspection station utilizing a combination of 4.05µm MWIR and 9.50µm LWIR software-controlled, variable power quantum cascade lasers (0.1mW to 10mW at the objective) as well as visible diode lasers, 660nm and 520nm, to allow assembly/inspection of visible and IR lens systems with radii ± 1mm to infinity without changing objectives.

CalcuLens™ Inspection Software with LAS-UP-IR™
allows measurement accuracy < 1.0 µm:

- Top surface centration (µm) or tilt (arcsec): Normal and confocal reflections
- Bottom surface centration (µm) or tilt (arcsec): Normal and confocal reflections
- Overall lens optical axis (µm) and wedge/tilt (arcsec)
- Centration (µm) and tilt (arcsec) of any lens surface in finished assembly (some reflections may not be visible due to AR coatings, lens CT, air gaps, etc)

Green 520nm Red 660nm MW-Infrared 4.05µm LW-Infrared 9.50µm



Transmission of common IR lens materials in microns; LAS-UP-IR™ sources indicated by solid lines (520nm, 660nm, 4.05µm, 9.50µm; Source: Janostech



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