

Custom Special Optical Lenses Datasheet

Felix Glass Brand Intro & Document ID

Felix Glass specializes in custom precision optical components for machine vision, laser systems, medical optics, spectroscopy and industrial imaging. OEM & ODM manufacturing services are available worldwide. Document No. : FG-CUSL-001 | Rev. 1.0 | Issue Date:2026

Core Specification Table

Item	Specification
Optional Substrates	H-K9L/BK7, Fused Silica, Sapphire, ZnSe, Ge, CaF2, YAG Laser Crystal
Custom Lens Categories	Achromatic Doublets, Cylindrical Lenses, Multi-Element Assemblies, IR Special Lenses, Ultra-Thin Precision Lenses, Aspheric Custom Lenses
Custom Size Range	1mm - 400mm, non-standard special sizes supported
Optical Precision	Surface flatness up to $\lambda/20$, surface quality Class 00
Tolerance Standard	Centration $\leq 0.003\text{mm}$, focal length $\pm 0.2\%$ for ultra-precision grade
Custom Coatings	Visible broadband AR, UV single-band AR, IR high-transmission coating, high laser damage threshold coating
Custom Processing	Cemented assembly, blackened edge, special chamfer, anti-reflection, anti-fog, scratch-resistant coating
Service Scope	Optical simulation design, prototype trial production, mass batch manufacturing

Product Category Brief

- Achromatic Doublet Lenses: Eliminate chromatic aberration for multi-wavelength imaging & detection
- Cylindrical Lenses: Linear beam shaping for laser scanning, barcode reading & light sheet systems
- Multi-Element Lens Assemblies: Pre-cemented integrated lens groups to simplify customer assembly
- Infrared Special Lenses: ZnSe/Ge material for thermal imaging, night vision & IR detection
- Ultra-Precision Custom Lenses: Ultra-low tolerance for aerospace and semiconductor inspection equipment

The information contained in this document is provided for reference only. Final specifications are subject to mutually approved engineering drawings, production capability review, and customer project requirements.