

Optical Lens Optical Performance Test Report

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-LENS-001 | Rev. 1.0 | Issue Date:2026

Test Equipment List

Focal length interferometer, centration tester, spectrophotometer, surface flatness interferometer, laser beam propagation test bench

Typical Tested Parameters

• Diameter & Thickness Dimension Tolerance • Surface Radius & Focal Length Accuracy • Lens Centration Deviation • Optical Surface Flatness & Polish Grade • Spectral Transmittance / Reflectance Curves • Coating Adhesion & Environmental Durability

Batch Sample Test Summary

1. Spherical Lenses: Focal length tolerance $\pm 0.5\%$; broadband AR coating transmittance $\geq 98.5\%$ visible band
2. Aspheric Lenses: Minimal spherical aberration, high resolution for compact camera & imaging systems
3. Laser Focus Lenses: Wavelength-matched AR coating with $>99\%$ transmittance, low thermal shift under high laser power
4. Custom Achromatic Doublets: Chromatic aberration eliminated for multi-wavelength optical detection

Test Conclusion

All finished optical lenses pass full dimensional, surface and spectral coating inspection. Complete original batch test records can be supplied for customer project audit and third-party certification submission.

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.

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