

Spherical 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-SPL-001
| Rev.1.0 | Issue Date:2026

Test Equipment

Focal length interferometer, centration detector, spectrophotometer, flatness interferometer, laser beam test bench

Typical Tested Parameters

- Diameter & thickness dimensional tolerance
- Surface curvature & focal length accuracy
- Lens centration deviation
- Surface flatness & polish grade
- Spectral transmittance / reflectance curve
- Coating adhesion & temperature durability

Batch Test Summary

- Plano convex lens: Broadband AR transmittance $\geq 98.5\%$ visible band, focal length tolerance $\pm 0.5\%$
- Fused silica UV spherical lens: Low UV absorption, stable under continuous UV laser irradiation
- IR ZnSe meniscus lens: High infrared transmittance for thermal imaging systems

Test Conclusion

All spherical lenses pass full dimensional, surface and spectral inspection; full batch test data can be provided for customer audit and third-party certification.

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.

Hong Kong Felix Glass Co., Limited Custom Optical Components Manufacturer www.felixglass.com | sales@felixglass.com