

Aspheric Lenses Optical Performance Test Report

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

Test Equipment

Laser profilometer, interferometer, spectrophotometer, MTF imaging tester, distortion analysis system, thermal cycling chamber

Full Test Parameters

- Diameter, thickness dimensional tolerance
- Aspheric surface form accuracy & roughness
- Focal length consistency and wavefront error
 - Modulation Transfer Function (MTF) imaging resolution
- Spherical aberration & distortion suppression effect
- Spectral transmittance of anti-reflection coating
- Thermal stability and coating scratch resistance

Batch Test Summary

- Glass aspherics: Excellent high-temperature stability, high MTF for industrial vision cameras
- Molded plastic aspherics: Uniform mass production consistency, lightweight for ADAS automotive sensing
- Diamond turned micro aspherics: Ultra-precision curve for miniature medical endoscope optics

Test Conclusion

All aspheric lenses pass full optical and surface precision testing; complete customized test data reports 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.

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