Laser Focus 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-LASER-001 | Rev.1.0 | Issue Date:2026

Test Equipment

High-power laser source, spectrophotometer, focal length interferometer, laser damage threshold tester, thermal stability test bench

Typical Tested Parameters

- Diameter & thickness dimensional tolerance
- Exact focal length accuracy
- Optical surface flatness & polish grade
- Spectral transmittance at target laser wavelength
- Laser induced damage threshold (LIDT)
- Coating adhesion & thermal shock resistance

Batch Test Summary

- 1064nm fiber laser lens: ≥99.5% transmittance, low thermal shift under continuous kilowatt laser power
- CO2 ZnSe lens: Stable mid-IR transmission, anti-oxidation coating for long service life
- 355nm UV fused silica lens: Low fluorescence, suitable for micro precision marking & drilling

Test Conclusion

All laser focus lenses pass full optical and high-power stability inspection; complete batch test records can be supplied for customer project audit and third-party certification.