

Optical Prism Optical Performance Test Report

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

Test Equipment List

Angle interferometer, high-precision spectrophotometer, surface flatness interferometer, laser optical path test bench

Typical Tested Parameters

- Overall Dimension Tolerance
- Vertex Angle Accuracy
- Optical Surface Flatness
- Surface Polish Quality Grade
- Spectral Transmittance / Reflectance Performance
- Coating Adhesion Strength (for coated prisms)

Batch Sample Test Data Summary

1. Right Angle Prism: Angle tolerance $\leq \pm 1$ arcmin; silver reflective coating visible band reflectance $\geq 98\%$
2. Dove Prism: Zero image distortion during 180° rotation; AR coating transmittance $\geq 96\%$ at target wavelength
3. Fused Silica UV Prism: Ultra-low UV absorption, stable performance under continuous UV laser irradiation
4. Equilateral Dispersive Prism: Uniform linear spectral separation for laboratory wavelength analysis
5. Penta Prism: No image inversion after 90° beam deflection, consistent output for precision measuring instruments

Test Conclusion

All finished optical prisms fully pass full inspection covering angle precision, surface finish and spectral coating performance. Complete original batch test data 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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