

Precision Optical Prisms Datasheet

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

Core Specification Table

Item	Specification
Materials	H-K9L, BK7, Fused Silica, Sapphire, ZnSe, Germanium
Prism Types	Right Angle, Dove, Penta, Equilateral Dispersive, Beam Splitter Prism
Size Range	Fully Customized per drawing
Surface Flatness	Up to $\lambda/20$
Surface Quality	Up to Class 00 Ultra-Polish
Angle Tolerance	Up to ± 1 arcmin
Available Coatings	AR Anti-Reflection, HR High-Reflection, Aluminum Reflective, Silver High-Reflection
Service Support	OEM & ODM Custom Manufacturing

Common Prism Type Introduction

1. Right Angle Prism: 90° beam deflection, image inversion for optical path adjustment
2. Dove Prism: 180° distortion-free image rotation for endoscope & observation equipment
3. Penta Prism: Fixed 90° light output without image flip for precision survey instruments
4. Equilateral Dispersive Prism: Linear spectral splitting for laboratory spectroscopy analysis
5. Beam Splitter Prism: Separate single beam into transmission & reflection dual light paths

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.

