

Aspheric Lenses Industry Application Case Manual

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

Real Application Cases

Case 1 Industrial Machine Vision: Glass aspheric lenses for high-resolution inspection cameras, reduce lens group volume and improve edge clarity

Case 2 Medical Endoscopes: Miniature diamond-turned aspherics for tiny imaging probes with low distortion

Case 3 Laser Collimation Systems: Fused silica aspherics to obtain uniform parallel laser beam

Case 4 Automotive ADAS Sensing: Mass molded plastic aspherics for autonomous driving perception cameras

Case 5 Laboratory Spectroscopy: Low-aberration aspheric lens groups for multi-wavelength optical measurement equipment

Main Applicable High-Value Industries

- Industrial Machine Vision Inspection Equipment
- Medical Endoscope & Minimally Invasive Diagnostic Devices
- Fiber & UV Laser Collimation Focus Systems
- Automotive ADAS Autonomous Driving Optical Cameras
- Laboratory Optical Spectroscopy & Scientific Instruments
- Consumer High Resolution Imaging Optics
- Aerospace Miniature Precision Optical Systems

Service Summary

Hong Kong Felix Glass Co., Limited supplies both prototype small-batch glass aspherics and large-volume molded plastic aspherics, with professional optical engineers supporting full custom aspheric curve design for global optical equipment manufacturers.

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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