

Optical Lenses Application Case Manual

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

Real Application Cases

Case 1 Industrial Machine Vision Inspection Broadband AR spherical lenses for automated surface defect detection, barcode scanning & dimensional measurement cameras Case 2 Laser Processing Equipment Custom wavelength laser focus lenses for UV marking, fiber laser cutting, CO2 engraving and femtosecond laser precision machining Case 3 Medical Imaging Devices Low-distortion aspheric lenses for endoscopes, ophthalmic diagnostic instruments and minimally invasive surgical optics Case 4 Laboratory Spectroscopy Instruments Achromatic doublet lenses for multi-wavelength light separation, optical measurement and scientific research Case 5 Aerospace & Semiconductor Inspection High-purity fused silica lenses with ultra-low birefringence for airborne optical systems and wafer defect inspection

Typical Applicable Industries

- Industrial Machine Vision Automation
- Laser Cutting, Marking & Welding Equipment
- Medical Imaging & Minimally Invasive Surgery
- Laboratory Spectroscopy & Optical Research
- Aerospace & Airborne Optics
- Defense Optical Surveillance
- Semiconductor Wafer Inspection
- Consumer Imaging & Optical Sensing

Service Summary

Hong Kong Felix Glass Co., Limited customizes spherical, aspheric, laser focus and special optical lenses for global industrial optical clients. Adjustable focal length, wavelength-matched coating schemes and stable mass delivery capacity are available for OEM & ODM projects.

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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