

Optical Prisms 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.

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Real Application Cases

Case 1 Industrial Machine Vision Inspection

AR coated H-K9L right angle prism, adjust optical path for automated surface defect detection cameras

Case 2 Laboratory Optical Spectroscopy Instrument

Equilateral dispersive prism for light spectrum separation, wavelength analysis and optical research

Case 3 Medical Endoscope Imaging Equipment

Dove prism achieves 180° image rotation without device rotation, supporting miniaturized medical imaging systems

Case 4 Precision Surveying & Measuring Instrument

Penta prism delivers fixed 90° light deflection without image flip to guarantee measurement accuracy

Case 5 UV Laser Detection & Analysis Equipment

Fused silica right angle prism with UV broadband anti-reflection coating for UV laser optical path adjustment

Typical Applicable Industries

- Machine Vision Automation
- Industrial Laser Systems
- Medical Imaging & Endoscopy
- Geodetic Survey Equipment
- Scientific Laboratory Research
- Optical Spectroscopy Analysis
- Aerospace Optics
- Defense & Surveillance Optics
- Semiconductor Wafer Inspection

Service Summary

Hong Kong Felix Glass Co., Limited customizes all types of precision optical prisms for machine vision, spectroscopy, medical endoscopy, laser positioning and survey measurement industries. Adjustable angle tolerance, customized coating schemes and stable mass delivery capacity are available for global OEM & ODM