

Low Light Lens Systems for remote sensing



Customized lens systems developed and manufactured by FISBA are the perfect solution for your low light camera. Years of experience in optical and mechanical design, as well as manufacturing from prototype to serial production, make FISBA an ideal partner for your next project.

Technical Data

- Broadband assemblies: VIS – SWIR
- F-number as low as 1.2
- Proven athermal designs for outdoor applications
- Compact and lightweight designs
- MTF measurements temperatures: -20 °C to +60 °C

FISBA Capabilities

- Expertise in optical and mechanical design
- Manufacturing from prototype to serial production
- In-house precision glass molding for advanced lens elements and coating capacities (AR, beam splitters, filter coatings)

Your Benefits

- FISBA project managers work directly with your system designers
- Entire production process from design to manufacturing under one roof in Switzerland
- Complete traceability of components upon request

Industries & Applications

- Defense & Security
- Aerospace

Technical Specifications Low Light Lens Systems

Parameters	Standard value
Low f#, i.e. large aperture, fast lens	f# 1.2
Color corrected wavelength range	400–1600 nm
Broad operational temperature range	-40 °C to +80 °C
Lightweight	< 500 g
Dichroic beam splitters with high transmission and reflection	>90 %
Low ghost images and scattered light	<10 ⁻⁴
Distortion corrected	Few percent
Wide field of view	~45 °
	High MTF due to molded aspherical lenses

Customized designs available upon request