FISBA Innovators in Photonics

Micro Vision Systems
In High-resolution and Compact Form

Expertise for miniaturized chip-on-tip vision systems under one roof.

Your Benefits

- **One partner**: From design to prototyping to volume production, entire process under one roof.
- **Operational excellence:** Most recent technologies from forming to coating and alignement.
- **Customized to needs**: Choose from build-to-print, build-to-spec or build-to-idea solution.
- **ISO13485 certificated:** Committed to delivering optical components and systems with the highest reliability and quality and meeting medical standards.

Microcamera chip-on-tip with illumniation

Technology Expertise

- Expertise in design and integration of fiber-optic flexible light bundles, optimized miniature LED illumination systems design and know how to efficiently couple sources to fiber to maximize brightness
- In-house production of complex submilimeter lenses and plano optics
- High-precision alignement of compound elements
- Serial micro assembling
- Broad coating portfolio

Explosion of microcamera chip-on-tip

Applications

- Endoscopy
- Medical Imaging
- Augmented Reality

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Micro Vision Systems
Example Specifications

	Without illumination	With illumination
Optical parameters	**Ø 1.6 mm**	**Ø 1.95 mm**
FoV (Field of View) diagonal	120°	
Working distance	5 – 50 mm	
Resolution	400 x 400 px	
F-number	6	
Wavelength range	400 nm – 700 nm	
Illumination	n/a	LED, fibers
Illumination power	n/a	≥ 100 mW
Electrical parameters		
Cable length	up to 2.5 m	
Frame rate	30 fps	
Mechanical parameters		
Length	≤ 4 mm	≤ 6 mm
Environmental conditions		
Operating temperature	+25 °C to +40 °C	
Storage temperature	-20 °C to +80 °C	
Waterproof rating	IP67	

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