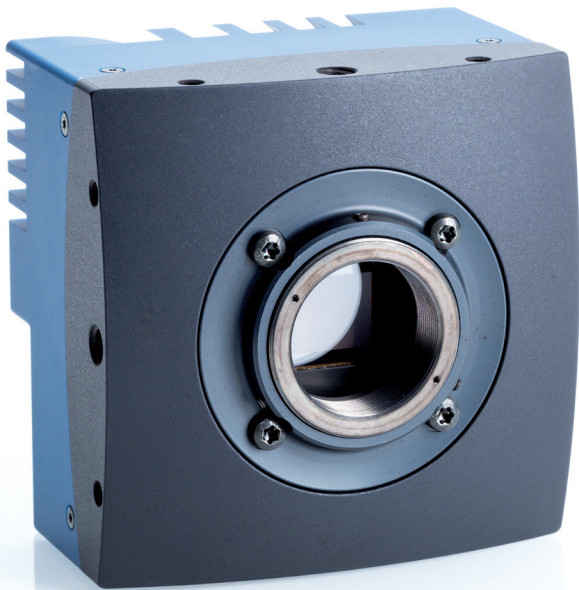




# EoSens® 3FIBER

High Speed CMOS Cameras  
Preliminary



## EoSens® 3FIBER Key Features:

- 566 fps at 3 megapixel resolution
- Up to 225,000 fps at reduced resolution
- High-performance fiber interface
- 80 x 80 x 53 mm small

## Engineered for Speed

The EoSens® 3FIBER brings an incredible combination of speed, resolution and responsiveness. Operating at 566 frames per second at 1.696 x 1.710 pixel resolution, the EoSens 3FIBER takes advantage of the integrated fiber interface.

## Compact Design

Another benefit is the camera's ultra-slim design. Its size was reduced to 80 x 80 x 53 mm, allowing it to integrate easily into existing production lines, machinery or moving equipment.

## APPLICATION EXAMPLES

- Laser triangulation
- Ball grid inspection
- PIV measurements
- Roboter positioning
- Ballistics and explosives
- Recycling sorting
- Rail inspection
- Microscopy



## Advantage Fiber Interface

The combination of a interface protocol and a flexible, proved, high-speed fiber interface in a small high-speed camera offers many advantages for the user:

- High data rates
- Standardized fiber MTP connection
- Long distance solution with cable lengths up to 300m
- Flexible and reliable fiber cables
- No extra costs for separate fiber repeater solution
- Saves system costs, e.g. with cheap fiber cables

## Frame rates

Resolution	Frame rate
1,696 x 1,710 px	566 fps
1,280 x 1,024 px	1,200 fps
640 x 480 px	4,620 fps
320 x 240 px	14,900 fps
128 x 128 px	42,450 fps
	max. 225,000 fps

## Smart Features

- Arbitrary ROI
- FPN Correction
- Trigger Modes
- High Dynamic Range
- GPIO

## Technical Data

(More detailed specifications are available on request)

	EoSens® 3FIBER (monochrome / color)
Resolution	3 Mpix
Active pixels	1,696 x 1,710 px
Interface	MTP fiber interface
Frame rate (8 bit)	566 fps
Sensor	LUPA3000
Sensor type	CMOS global shutter
Sensor format	1"
Active sensor area (H x V)	13.57 x 13.68 mm
Pixel size	8 x 8 µm
Sensitivity (mono)	3.81 V/lux*s @ 550nm
Color depth	8 bit
Dynamic range	80 dB
Shutter time (steps)	1 µs
Shutter time range	1 µs - 1 s
Max. Trigger frequency	300 kHz
Max. Jitter	±4 ns
Connector options	MTP connector
Mount options	C-Mount / F-Mount
Dimensions (W x H x L w/o mount)	80 x 80 x 53mm
Weight (C-Mount)	450 g
Power consumption	7 W
Power supply	12 - 24 V DC
Camera body temperature	+5 °C ... +50 °C
Shock / Vibration proof	70 g / 7 grms
Conformity	CE / RoHS / GenICam
EMVA1288 reports	✓

## MIKROTRON GmbH

Mikrotron GmbH provides a full range of high-speed imaging solutions for challenging applications in industry, engineering, science and sports. The company's extreme slow-motion recording enables customers to optimize manufacturing processes, improve product design, revolutionize quality management and analyze motion.

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