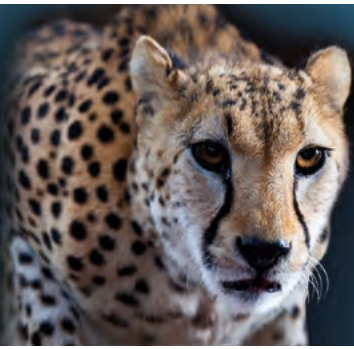# EoSens® 4FIBER

High-Speed CMOS Cameras

GEN‹i›CAM

Engineered for Performance

Featuring a high-speed CMOS sensor, the EoSens® 4FIBER offers 2,336 x 1,728 pixel at an outstanding speed of 563 fps combined with an integrated fiber interface for easy transmissions of this incredible data rate with standardized fiber cables and up to 300 m distances. Higher frame rates can be achieved by defining up to three independent regions of interest. Combined with a fiber interface the EoSens® 4FIBER transfers megapixel images in real time via long distances.

Powerful Features

The EoSens® 4FIBER boasts an extended feature set. Image processing functions allow you to correct noise and gamma settings, bringing unsurpassed image quality and fidelity to your application. The sequencer function enables you to define four regions of interest, each with a different exposure time.
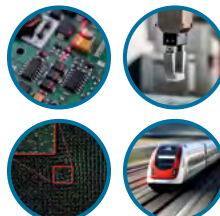
EoSens® 4FIBER Key Features:

- 563 fps at 4 megapixel resolution
- Up to 225,000 fps at reduced resolution
- High performance, integrated fiber interface
- 80 x 80 x 53 mm small

APPLICATION EXAMPLES

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

MIKROTRON
High-Speed Vision Solutions

Compact Design

Contained with an 80 x 80 x 53 mm in a fanless metal housing and an integrated fiber interface, the Eo*Sens*® 4FIBER is suited for use in a wide range of scientific and industrial applications.

Frame rates

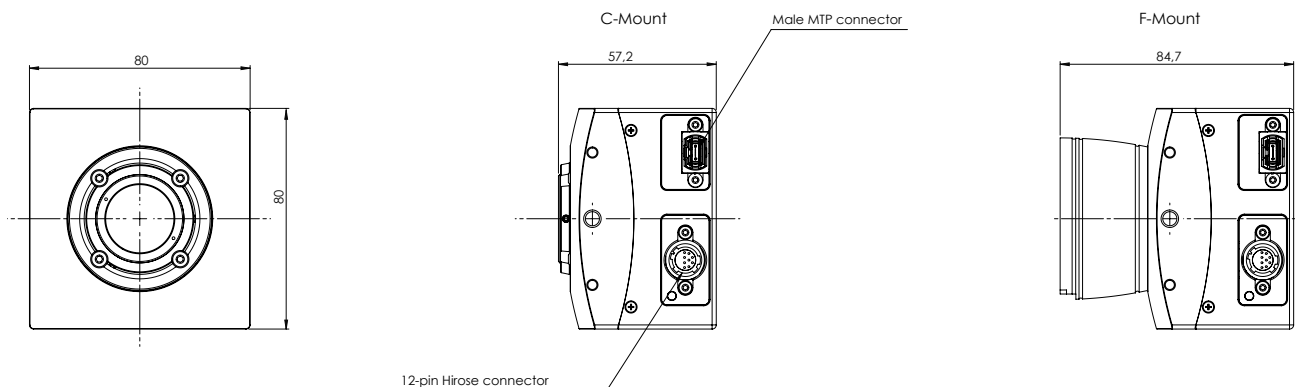| Resolution	Frame rate
2,336 x 1,728 px	563 fps
1,920 x 1,080 px	900 fps
1,024 x 768 px	1,260 fps
640 x 480 px	2,020 fps
128 x 128 px	7,490 fps
	max. 225,000 fps

Smart Features

- Gamma Correction
- FPN Correction
- Noise Reduction (PRNU)
- Multiple ROI
- Sequencer Function
- Skipping Mode
- GPIO

Technical Data

(More detailed specifications are available on request)

	Eo*Sens*® 4FIBER monochrome / color
Resolution	4 Mpix
Active pixels	2,336 x 1,728 px
Interface	MTP fiber interface
Frame rate (8 bit)	563 fps
Sensor	AM41
Sensor type	CMOS global shutter
Sensor format	4 / 3"
Active sensor area (H x V)	16.35 x 12.10 mm
Pixel size	7 x 7 µm
Sensitivity (mono)	11 V/lux*s @ 550 nm
Pixel data width	10 / 8 bit
Dynamic range	60 dB
Shutter time (steps)	1 µs
Shutter time range	1 µs – 1 s
Max. Trigger frequency	300 kHz
Max. Jitter	±4 ns
Mount options	C-Mount / F-Mount
Dimensions (W x H x L w/o mount)	80 x 80 x 53 mm
Weight (C-Mount)	450 g
Power consumption	10 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	✓

Camera Body Dimensions

C-Mount   Male MTP connector   F-Mount

80   80   57,2   84,7

12-pin Hirose connector

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 solutions enables customers to optimize manufacturing processes, improve product design, revolutionize quality management and analyze motion.

Germany
Landshuter Str. 20-22
85716 Unterschleissheim
+49(0)89-726342-00
info@mikrotron.de
www.mikrotron.de

North America
14032 Hermosillo Way
US-Poway, CA 92064
+1-858-774-1176
steve.ferrell@mikrotron.de
www.mikrotron.de

member of the TKH Group

MIKROTRON
High-Speed Vision Solutions