



# EoSens3.0MCL-CM

EoSens® Camera Link

## High-Speed with Camera Link

Our EoSens® CL series delivers high frame rates at highest image quality. The Camera Link interface allows almost latency-free access to the image sensor. By reducing the resolution and using the ROIs appropriately, the High-Speed camera achieves frame rates of over 180,000 fps. Depending on the model, Camera Link is supported in Base or Extended-Full configuration.

### Technical Highlights:

- Up to 90 dB dynamic range for high contrast images
- Compact size from 63 x 63 x 41 mm
- Shock and vibration resistant
- Fanless design
- Multiple ROIs in any shape
- Up to more than 180,000 fps at reduced resolution
- Fixed Pattern Noise Correction
- Very light sensitive image sensor



**SPECIFICATIONS**

Resolution [MP]	3 MP
Resolution (h x v)	1690 x 1710 px
Frame rate (max.)	285 fps
Chroma	mono (color on request)
Interface	Camera Link Full

**SENSOR**

Sensor	LUPA3000
Manufacturer	ON Semiconductor
Sensor type	Area CMOS
Shutter type	global shutter
Sensor size (h x v)	13.52 x 13.68 mm
Optical diagonal	19.23 mm
Sensor format	1 "
Pixel size (h x v)	8 x 8 $\mu\text{m}$

**FRAME RATES**

1690 x 1710	285 fps
1280 x 1024	604 fps
1020 x 768	951 fps
640 x 480	2327 fps
1280 x 64	9385 fps
120 x 60	38502 fps

**CAMERA**

Exposure modes	EXTERNAL
Trigger modes	External TTL Signal, CC-Trigger
Exposure time (min)	1 $\mu\text{s}$
Exposure time (max)	1 sec (external $\infty$ )
Pixel format / max	mono8 / 8 bit

**FEATURE SET**

AOI	yes
Shading correction	yes
Defect pixel correction	yes

**HOUSING**

Lens mount	C-Mount
Dimensions (w x h x d)	63 x 63 x 55.4 mm
Weight	300 g
Ambient temperature	-10 to 45 °C
Ambient humidity	10 to 90 % (non-condensing)
Shock / Vibration proof	70 g / 7 grms
Protection class	IP30

**I/O-INTERFACES**

Input OPTO	1 x
Power supply	8 to 24 V (DC)
Power consumption	7 W (dep. on operating mode)

