

LXC-40M

Camera Link®, 4 Megapixel, Monochrome

Article number: 11148640

Overview

- 2048 × 2048 px
- ams (CMOSIS) CMV4000 V3
- 1" CMOS
- 180 fps
- Camera Link® Full



GEN*i*CAM



Technical data

Sensor information

Sensor	ams (CMOSIS) CMV4000 V3
Mono/Color	Mono
Sensor type	1" CMOS
Shutter type	Global shutter
Resolution	2048 × 2048 px
Pixel size	5.5 × 5.5 µm
Exposure time	0.03 ... 1000 ms

Data quality (EMVA 1288 typical)

Dark noise	16.87 e-
Saturation capacity	8428 e-
Dynamic range	53.6 dB
Signal-to-noise ratio	39.3 dB
Quantum efficiency	47.3 % @ 536 nm

Acquisition formats

Image formats, interface frame rate max.	Full Frame, 2048 × 2048 px, max. 180 fps Binning 2×2, 1024 × 1024 px, max. 180 fps Binning 1×2, 1024 × 2048 px, max. 180 fps Binning 2×1, 2048 × 1024 px, max. 180 fps
Pixel formats	Mono8 Mono10

Image preprocessing

Analog controls	Gain (0 ... 12 dB) Offset (0 ... 63 LSB 10 Bit)
Color models	Mono

Image preprocessing

Color processing	NA
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Camera features

Synchronization	free running trigger
Trigger sources	Hardware Software
Trigger delay	0 ... 2 sec, tracking and buffering of up to 512 trigger signals
Sequencer	Automated control for series of images using different sets of parameters
Sequencer parameter	Exposure time gain factor Output ROI Offset x ROI Offset y
Digital inputs	1 input line
Digital outputs	1 output line
Internal image buffer	256 MB

Interfaces and connectors

Data interface	Camera Link Full, connector: 2 x Standard SDR26 (Mini CL)
Process interface	M8 / 8 pins
Power supply	via M8 / 8 pins

Mechanical data

Lens mount	C-mount
Width	60 mm
Height	60 mm

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Depth	43.05 mm
Weight	≤ 285 g
Material	housing: aluminum

Electrical data

Voltage supply range +Vs	12 ... 24 V DC (external power supply) 0 ... 12 V (PoCL)
Power consumption	approx. 3,8 W @ 24 VDC approx. 3,8 W @ 12 VDC (PoCL)

Non-volatile memory

Flash memory size	128 kB
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Environmental conditions

Operating temperature	+5 ... +64 °C @ T = measurement point
Humidity	10 ... 90 % (non-condensing)

Protection class	IP 40
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Conformity

Conformity	CE RoHS EAC
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Dimension drawing

