

LXC-120M

Camera Link®, 12 Megapixel, Monochrome

Article number: 11148663

Overview

- 4096 × 3072 px
- ams (CMOSIS) CMV12000
- APS-C CMOS
- 63 fps
- Camera Link® Full



GEN*i*CAM



Technical data

Sensor information

Sensor	ams (CMOSIS) CMV12000
Mono/Color	Mono
Sensor type	APS-C CMOS
Shutter type	Global shutter
Resolution	4096 × 3072 px
Pixel size	5.5 × 5.5 µm
Exposure time	0.02 ... 1000 ms

Data quality (EMVA 1288 typical)

Dark noise	12.25 e-
Saturation capacity	8931 e-
Dynamic range	56.7 dB
Signal-to-noise ratio	39.5 dB
Quantum efficiency	38.1 % @ 536 nm

Acquisition formats

Image formats, interface frame rate max.	Full Frame, 4096 × 3072 px, max. 63 fps Binning 2×2, 2048 × 1536 px, max. 63 fps Binning 1×2, 4096 × 1536 px, max. 63 fps Binning 2×1, 2048 × 3072 px, max. 63 fps
Pixel formats	Mono8 Mono10

Image preprocessing

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

Camera features

Synchronization	free running trigger
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Camera features

Trigger sources	Hardware Software ActionCommand
Trigger delay	0 ... 2 sec, tracking and buffering of up to 256 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	512 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	M58-mount (F-mount, M42, C-mount via adapter)
Width	60 mm
Height	60 mm
Depth	43.05 mm
Weight	≤ 235 g (M58-mount)
Material	housing: aluminum

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Electrical data

Voltage supply range +Vs	12 ... 24 V DC (external power supply) 38 ... 57 V (PoCL)
Power consumption	approx. 6,5 W @ 24 VDC approx. 6,5 W @ 12 VDC (PoCL)

Non-volatile memory

Flash memory size	128 kB
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Environmental conditions

Operating temperature	+5 ... +65 °C @ T = measurement point
Humidity	10 ... 90 % (non-condensing)
Protection class	IP 40

Conformity

Conformity	CE RoHS EAC
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Dimension drawing

