

LXG-500M

Dual GigE, 48 Megapixel, Monochrome

Article number: 11188977

Overview

- 7920 × 6004 px
- ams (CMOSIS) CMV50000
- 35 mm CMOS
- 5 fps
- Dual Gigabit Ethernet



GEN*i*CAM



Technical data

Sensor information

Sensor	ams (CMOSIS) CMV50000
Mono/Color	Mono
Sensor type	35 mm CMOS
Shutter type	Global shutter
Resolution	7920 × 6004 px
Pixel size	4.6 × 4.6 μm
Exposure time	0.1 ... 1000 ms

Data quality (EMVA 1288 typical)

Dark noise	9.28 e-
Saturation capacity	13769 e-
Dynamic range	62.9 dB
Signal-to-noise ratio	41.4 dB
Quantum efficiency	58.4 % @ 536 nm

Acquisition formats

Image formats, interface frame rate max.	Full Frame, 7920 × 6004 px, max. 5 fps Binning 2×2, 3960 × 3002 px, max. 15 fps Binning 1×2, 7920 × 3002 px, max. 10 fps Binning 2×1, 3960 × 6004 px, max. 10 fps
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Image formats, acquisition frame rate max. (Burst Mode)	Full Frame, 7920 × 6004 px, max. 15 fps
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Pixel formats	Mono8 Mono12 Mono12 Packed
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Image preprocessing

Analog controls	Gain (0 ... 18 dB) Offset (0 ... 255 LSB 12 Bit)
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Image preprocessing

Color models	Mono
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Camera features

Synchronization	free running trigger
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	3 output lines
Internal image buffer	512 MB

Interfaces and connectors

Data interface	Dual Gigabit Ethernet, Transfer rate 2000 Mb/s/sec, Connector: 2 x 8P8C Modular Jack (RJ45), screwable type
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Process interface	M8 / 8 pins
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Power supply	via M8 / 8 pins
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Mechanical data

Lens mount	M58-mount (F-mount, M42, C-mount via adapter)
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Mechanical data

Width	60 mm
Height	60 mm
Depth	56.32 mm
Weight	≤ 320 g (M58-mount)
Material	housing: aluminum

Electrical data

Voltage supply range +Vs	12 ... 24 V DC (external power supply) 36 ... 57 V DC (Power over Ethernet)
Power consumption	approx. 10 W @ 24 VDC (sequential readout) approx. 12 W @ 48 VDC (PoE, sequential readout)

Non-volatile memory

Flash memory size	128 kB
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Environmental conditions

Operating temperature	+5 ... +66 °C @ T = measurement point
Humidity	10 ... 90 % (non-condensing)
Protection class	IP 40

Conformity

Conformity	CE KC (R-REI-BkR-LXG-500M) RoHS EAC BIS-CRS (R-41207004)
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Dimension drawing

