

LXG-250M

Dual GigE, 25 Megapixel, Monochrome

Article number: 11150444

Overview

- 5120 × 5120 px
- Onsemi PYTHON 25K
- APS-H CMOS
- 9 fps
- Dual Gigabit Ethernet



GEN<i>i>CAM



Technical data

Sensor information

Sensor	onsemi PYTHON 25K
Mono/Color	Mono
Sensor type	APS-H CMOS
Shutter type	Global shutter
Resolution	5120 × 5120 px
Pixel size	4.5 × 4.5 µm
Exposure time	0.03 ... 1000 ms

Data quality (EMVA 1288 typical)

Dark noise	12.8 e-
Saturation capacity	8637 e-
Dynamic range	56 dB
Signal-to-noise ratio	39.4 dB
Quantum efficiency	51.3 % @ 536 nm

Acquisition formats

Image formats, interface frame rate max.	Full Frame, 5120 × 5120 px, max. 9 fps Binning 2×2, 2560 × 2560 px, max. 9 fps Binning 1×2, 5120 × 2560 px, max. 9 fps Binning 2×1, 2560 × 5120 px, max. 9 fps
Image formats, acquisition frame rate max. (Burst Mode)	Full Frame, 5120 × 5120 px, max. 32 fps
Pixel formats	Mono8 Mono10 Mono10 Packed

Image preprocessing

Analog controls	Gain (0 ... 23.5 dB) Offset (0 ... 63 LSB 10 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
Process interface	M8 / 8 pins
Power supply	via M8 / 8 pins

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. 5,4 W @ 24 VDC (sequential readout) approx. 7,6 W @ 48 VDC (PoE, sequential readout)

Non-volatile memory

Flash memory size	128 kB
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Environmental conditions

Operating temperature	+5 ... +68 °C @ T = measurement point
Humidity	10 ... 90 % (non-condensing)
Protection class	IP 40

Conformity

Conformity	CE KC (R-REI-BkR-LXG-250M) RoHS EAC
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Dimension drawing

