

LXG-120M.3D

Gigabit Ethernet, 12 Megapixel, Monochrome

Article number: 11174308

Overview

- 4096 × 3072 px
- ams (CMOSIS) CMV12000
- APS-C CMOS
- 60 fps
- Gigabit Ethernet



Picture similar



GEN<i>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	11.15 e-
Saturation capacity	7755 e-
Dynamic range	53.7 dB
Signal-to-noise ratio	38.9 dB
Quantum efficiency	36.1 % @ 536 nm

Acquisition formats

Image formats, interface frame rate max.	Full Frame, 4096 × 3072 px, max. 9 fps
Image formats, acquisition frame rate max. (Burst Mode)	Full Frame, 4096 × 3072 px, max. 60 fps
Pixel formats	Mono8 Mono10

Image preprocessing

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

Image preprocessing

Image processing	3D Laser Triangulation based on VisualApplets
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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 512 trigger signals
Sequencer	Automated control for series of images using different sets of parameters
Sequencer parameter	Exposure time gain factor 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	Gigabit Ethernet, Transfer rate 1000 Mb/s/sec, Connector: 8P8C Modular Jack (RJ45), screwable type
Process interface	M8 / 8 pins (2x)
Power supply	via M8 / 8 pins

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Mechanical data

Lens mount	M58-mount (F-mount, M42, C-mount via adapter)
Width	60 mm
Height	60 mm
Depth	54.25 mm
Weight	≤ 290 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. 7.3 W @ 24 VDC Approx. 8.4 W @ 48 VDC (PoE)

Non-volatile memory

Flash memory size	128 kB
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Environmental conditions

Operating temperature	+5 ... +50 °C
Humidity	10 ... 90 % (non-condensing)
Protection class	IP 40

Conformity

Conformity	CE RoHS EAC
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Dimension drawing

