

LXG-120C

Dual GigE, 12 Megapixel, Color

Article number: 11117847

Overview

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



GEN*i*CAM



Technical data

Sensor information

Sensor	ams (CMOSIS) CMV12000
Mono/Color	Color
Color filter	RGB Bayer Mosaic
Sensor type	APS-C CMOS
Shutter type	Global shutter
Resolution	4096 × 3072 px
Pixel size	5.5 × 5.5 µm
Exposure time	0.04 ... 1000 ms

Data quality (EMVA 1288 typical)

Dark noise	12.89 e-
Saturation capacity	9730 e-
Dynamic range	57.2 dB
Signal-to-noise ratio	39.9 dB
Quantum efficiency	36.3 % @ 465 nm 35.5 % @ 536 nm 34.5 % @ 631 nm

Acquisition formats

Image formats, interface frame rate max.	Full Frame, 4096 × 3072 px, max. 19 fps
Image formats, acquisition frame rate max. (Burst Mode)	Full Frame, 4096 × 3072 px, max. 50 fps
Pixel formats	BayerGB8 BayerGB12 BayerGB12 Packed

Image preprocessing

Analog controls	Gain (0 ... 12 dB) Offset (0 ... 255 LSB 12 Bit)
Color models	Raw Bayer
Color processing	NA

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 Mbits/sec, Connector: 2 x 8P8C Modular Jack (RJ45), screwable type
Process interface	M8 / 8 pins
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. 7,0 W @ 24 VDC approx. 6,5 W @ 48 VDC (PoE)

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 RoHS EAC BIS-CRS (R-41207004)
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Dimension drawing

