

LXG-40NIR

Dual GigE, 4 Megapixel, Monochrome/Enhanced NIR

Article number: 11137901

Overview

- 2048 × 2048 px
- ams (CMOSIS) CMV4000 V3
- 1" CMOS
- 59 fps
- Dual Gigabit Ethernet



GEN*i*CAM



Technical data

Sensor information

Sensor	ams (CMOSIS) CMV4000 V3
Mono/Color	NIR
Sensor type	1" CMOS
Shutter type	Global shutter
Resolution	2048 × 2048 px
Pixel size	5.5 × 5.5 µm
Exposure time	0.03 ... 1000 ms

Data quality (EMVA 1288 typical)

Dark noise	15.18 e-
Saturation capacity	8172 e-
Dynamic range	54.2 dB
Signal-to-noise ratio	39.1 dB
Quantum efficiency	47.4 % @ 536 nm

Acquisition formats

Image formats, interface frame rate max.	Full Frame, 2048 × 2048 px, max. 59 fps Binning 2×2, 1024 × 1024 px, max. 180 fps Binning 1×2, 2048 × 1024 px, max. 118 fps Binning 2×1, 1024 × 2048 px, max. 81 fps
Image formats, acquisition frame rate max. (Burst Mode)	Full Frame, 2048 × 2048 px, max. 180 fps
Pixel formats	Mono8 Mono10 Mono10 Packed

Image preprocessing

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

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

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Mechanical data

Lens mount	C-mount
Width	60 mm
Height	60 mm
Depth	52.4 mm
Weight	≤ 340 g
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. 6,2 W @ 24 VDC approx. 5,2 W @ 48 VDC (PoE)

Non-volatile memory

Flash memory size	128 kB
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Environmental conditions

Operating temperature	+5 ... +64 °C @ T = measurement point
Humidity	10 ... 90 % (non-condensing)
Protection class	IP 40

Conformity

Conformity	CE RoHS EAC
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Dimension drawing

