

## LXG-500C

Dual GigE, 48 Megapixel, Color

Article number: 11188976

### Overview

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



GEN<i>i>CAM



### Technical data

#### Sensor information

Sensor	ams (CMOSIS) CMV50000
Mono/Color	Color
Color filter	RGB Bayer Mosaic
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	8.66 e-
Saturation capacity	12744 e-
Dynamic range	62.8 dB
Signal-to-noise ratio	41.1 dB
Quantum efficiency	45 % @ 465 nm 49.1 % @ 536 nm 41.2 % @ 631 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
Pixel formats	BayerBG8 BayerBG10 BayerBG12

#### Image preprocessing

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

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 Mb/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	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	32 Mbit
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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 KC (R-REI-BkR-LXG-500M) EAC BIS-CRS (R-41207004)
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## Dimension drawing

