

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



Picture similar



GEN*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)
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

The product features and technical data specified do not express or imply any warranty. Technical modifications subject to change. 2023-07-18

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Interfaces and connectors

Power supply via M8 / 8 pins

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

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)

Dimension drawing

