

VLXT-490M.I

Gigabit Ethernet, 49 Megapixel, Mono

Article number: 11705801

Overview

- 7008 × 7000 px
- Gpixel GMAX3249
- 2.3" CMOS
- 23 fps
- 10 GigE



Picture similar



GEN*i*CAM



Technical data

Sensor information

Sensor	Gpixel GMAX3249
Mono/Color	Mono
Sensor type	2.3" CMOS
Shutter type	Global shutter
Resolution	7008 × 7000 px
Pixel size	3.2 × 3.2 μm
Exposure time	0.02 ... 60000 ms

Data quality (EMVA 1288 typical)

Dark noise	5.16 e-
Saturation capacity	11281 e-
Dynamic range	65.9 dB
Signal-to-noise ratio	40.5 dB
Quantum efficiency	61 % @ 536 nm 60.8 % @ 533 nm

Acquisition formats

Image formats, interface frame rate max.	Full Frame, 7008 × 7000 px, max. 23 fps Binning 2×2, 3504 × 3500 px, max. 23 fps Binning 2×1, 3504 × 7000 px, max. 23 fps Binning 1×2, 7008 × 3500 px, max. 23 fps
Image formats, acquisition frame rate max. (Burst Mode)	Full Frame, 7008 × 7000 px, max. 23 fps
Pixel formats	Mono8 Mono10 Mono12 Mono12 Packed

Image preprocessing

Analog controls	Gain (0 ... 44 dB) Offset (-256 ... 255 LSB 12 Bit)
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Color models	Mono
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Camera features

Basic Functions	Exposure Gain / Color Gain Trigger / Exposure Active (Flash) Binning 2x2 Partial Scan Offset Free Running Mode (Live Image) Multi ROI
Auto Functions	Exposure Auto Gain Auto
Image Pre-processing	Image Flipping (X/Y) LUT / Gamma Shading Correction Edge Sharpening Noise Reduction
Acquisition / Interface	Burst Mode Adjustable Framerate Short Exposure Time Enable Device Link Throughput Limit Internal Image Buffer
Synchronization	free running trigger
Trigger sources	Hardware Software ActionCommand

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

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Camera features

Trigger delay	0 ... 2 sec, tracking and buffering of up to 256 trigger signals
Process Synchronization	<ul style="list-style-type: none"> Events Timer Trigger Delay Debouncer Counter Sequencer Trigger via Action CMD (GigE) Action CMD Request ID Trigger ID inside Chunk Additional Output Modes (e.g. Trigger Ready) PWM (PWM Duration / PWM Duty Cycle) Selectable Output format (e.g. Tri State, Push Pull) Chunk data inside transferred image Encoder support via Counter End trigger source 4 power outputs with up to 120 W (max. 48 V / 2.5 A)
Time synchronization IEEE 1588	<ul style="list-style-type: none"> IEEE 1588 / Master and Slave function IEEE 1588 / Scheduled Action CMD IEEE 1588 / Synchronized Acquisition Framerate
Additional Functions	<ul style="list-style-type: none"> User Set Integrated temperature sensor Readable additional information (e.g. sensor information) Save Custom Data
Lens control	Corning liquid lens
Internal image buffer	<ul style="list-style-type: none"> 1024 MB 21 images (Trigger Mode) 1 image (Free Running Mode)

Interfaces and connectors

Data interface	10 Gigabit Ethernet, Transfer rate 10000 Mbits/sec, Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Fast Ethernet, Transfer rate 100 Mbits/sec, Connector: M12 / 8-pol x-coded (SACC-CI-M12FS-8CON-L180-10G)
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Interfaces and connectors

Process interface	M12 / 12 pins a-coded (SACC-CI-M12MS-12CON-L180)
Power supply	via M12/12 pins a-coded

Mechanical data

Lens mount	M58-mount (F-mount, M42, C-mount via adapter)
Width	60 mm
Height	60 mm
Depth	103.8 mm
Weight	≤ 485 g
Material	aluminum

Electrical data

Voltage supply range +Vs	19.2 ... 28.8 V DC (external power supply)
Power consumption	Approx. 14.3 W @ 24 VDC and 23 fps

Non-volatile memory

Flash memory size	128 kB
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Environmental conditions

Operating temperature	-30 ... +70 °C @ T = measurement point
Humidity	10 ... 90 % (non-condensing)
Protection class	IP 40

Digital I/Os

Lines	<ul style="list-style-type: none"> 2 input lines 4 power output lines with pulse width modulation (PWM) (max. 48 V / max. 2,5 A) RS232
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Conformity

Conformity	<ul style="list-style-type: none"> CE RoHS
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Dimension drawing

