Baumer
Passion for Sensors

Industrial cameras / CX series

VCXG.2-25M

Gigabit Ethernet, 2,3 Megapixel, Monochrome

Article number: 11708149

Overview

- 1920 x 1200 px
- onsemi PYTHON2000
- 2/3" CMOS
- 53 fps
- Gigabit Ethernet

Picture similar

Technical data

Sensor information	
Sensor	onsemi PYTHON2000
Mono/Color	Mono
Sensor type	2/3″ CMOS
Shutter type	Global shutter
Resolution	1920 × 1200 px
Pixel size	4.8 × 4.8 µm
Exposure time	0.02 … 1000 ms
Data quality (EMVA 1288 typical)	
Dark noise	10.93 e-
Saturation capacity	9207 e-
Dynamic range	57.9 dB
Signal-to-noise ratio	39.6 dB
Quantum efficiency	57.2 % @ 536 nm
Acquisition formats	
Image formats, interface frame rate max.	Full Frame, 1920 × 1200 px, max. 53 fps Binning 2×2, 960 × 600 px, max. 59 fps Binning 2×1, 960 × 1200 px, max. 59 fps Binning 1×2, 1920 × 600 px, max. 59 fps
Image formats, aquisition frame rate max. (Burst Mode)	Full Frame, 1920 × 1200 px, max. 59 fps
Pixel formats	Mono8 Mono10
Image preprocessing	
Analog controls	Gain (0 … 12 dB) Offset (0 … 63 LSB 10 Bit)

Image preprocessing	
Color models	Mono
Camera features	
Basic Functions	Exposure Gain Trigger / Exposure Active (Flash) Binning 2x2 Partial Scan Offset Free Running Mode (Live Image)
Auto Functions	Exposure Auto Gain Auto
Image Pre-processing	Image Flipping (X/Y) LUT / Gamma
Acquisition / Interface	Burst Mode Adjustable Framerate Device Link Throughput Limit Internal Image Buffer
Synchronization	free running trigger
Trigger sources	Hardware Software ActionCommand
Trigger delay	0 … 2 s, tracking and buffering of up to 256 trigger signals

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Camera features	
Process Synchronization	Events Timer Trigger Delay Debouncer Counter Sequencer Trigger via Action CMD (GigE) Additional Output Modes (e.g. Trigger Ready) Chunk data inside transferred image Encoder support via Counter End trigger source
Additional Functions	User Set Integrated temperature sensor Readable additional information (e.g. sensor information)
Calibration data	Camera calibration data (user defined storage for intrinsic / extrinsic camera parameters, and geometry distortion values) Customer data storage (128 bytes user defined)
Internal image buffer	53 MB 8 images (Trigger Mode) 1 image (Free Running Mode)
Interfaces and connectors	
Data interface	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Fast Ethernet, Transfer Rate 100 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable TYPE090 (according to GigE Vision Mechanical Supplement)
Process interface	M8 / 8 pins (SACC-DSI-M8MS-8CON-M8-L180)

Interfaces and connectors	
Power supply	via M8/8 pins or Power over Ethernet (PoE)
Mechanical data	
Lens mount	C-mount
Width	29 mm
Height	29 mm
Depth	49 mm
Weight	≤ 120 g
Material	zinc die casting, baked varnish
Electrical data	
Voltage supply range +Vs	12 … 24 V DC (external power supply) 36 … 57 V DC (Power over Ethernet)
Power consumption	Approx. 3.3 W @ 12 VDC and 53 fps Approx. 4.0 W @ 48 VDC (PoE) and 53 fps
Non-volatile memory	
Flash memory size	128 kB
Environmental conditions	
Operating temperature	0 … +65 ° @ T = measurement point
Storage temperature	-20 … +70 °C
Humidity	10 … 90 % (non-condensing)
Protection class	IP 40 (with mounted lens and cable)
Digital I/Os	
Lines	1 input line 1 output line 2 general purpose lines
Conformity	
Conformity	CE RoHS UL recognized

Dimension drawing