Baumer
Passion for Sensors

Industrial cameras / CX series

VCXG.2-83UV

Gigabit Ethernet, 8 Megapixel, Ultraviolet

Article number: 11728871

Overview

- 2848 x 2832 px
- Sony IMX487
- 2/3″ CMOS
- 15 fps
- Gigabit Ethernet
- Spectrum: Ultraviolet (200–400 nm)

Picture similar

Technical data

Sensor information	
Sensor	Sony IMX487
Mono/Color	Mono
Sensor type	2/3″ CMOS
Shutter type	Global shutter
Resolution	2848 × 2832 px
Pixel size	2.74 × 2.74 µm
Exposure time	0.001 … 60000 ms
Data quality (EMVA 1288 typical)	
Dark noise	2.5 e-
Saturation capacity	9000 e-
Dynamic range	70 dB
Signal-to-noise ratio	40 dB
Quantum efficiency	53 % @ 536 nm
Acquisition formats	
Image formats, interface frame rate max.	Full Frame, 2848 × 2832 px, max. 15 fps Binning 2×2, 1424 × 1416 px, max. 59 fps Binning 2×1, 1424 × 2832 px, max. 16 fps Binning 1×2, 2848 × 1416 px, max. 16 fps
Image formats, aquisition frame rate max. (Burst Mode)	Full Frame, 2848 × 2832 px, max. 16 fps Binning 2×2, 1424 × 1416 px, max. 58 fps
Pixel formats	Mono8 Mono10 Mono12 Mono12 Packed

Image preprocessing	
Analog controls	Gain (0 … 48 dB) Offset (0 … 255 LSB 12 Bit)
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 Short Exposure Time Enable Device Link Throughput Limit Internal Image Buffer
Synchronization	free running trigger
Trigger sources	Hardware / Line 0 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) Save Custom Data
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	124 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)
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. 3.0 W @ 12 VDC and 13 fps Approx. 3.4 W @ 48 VDC (PoE) and 6 fps
Non-volatile memory	
Flash memory size	128 kB
Environmental conditions	
Operating temperature	0 … +65 ° @ T = measurement point
Storage temperature	-20 … +70 °C
Humidity	0 … 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
Output line sources	Off Exposure Active Timer1 Readout Active UserOutput 1-3 TriggerReady
Conformity	
Conformity	CE RoHS UL recognized