

## V CXG.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



GEN<i>i>CAM



### 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, acquisition 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)
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Color models	Mono
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#### Camera features

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

Process Synchronization	<ul style="list-style-type: none"> <li>Events</li> <li>Timer</li> <li>Trigger Delay</li> <li>Debouncer</li> <li>Counter</li> <li>Sequencer</li> <li>Trigger via Action CMD (GigE)</li> <li>Additional Output Modes (e.g. Trigger Ready)</li> <li>Chunk data inside transferred image</li> <li>Encoder support via Counter End trigger source</li> </ul>
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Additional Functions	<ul style="list-style-type: none"> <li>User Set</li> <li>Integrated temperature sensor (InHouse and Sensor)</li> <li>Readable additional information (e.g. sensor information)</li> <li>Save Custom Data</li> </ul>
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Calibration data	<ul style="list-style-type: none"> <li>Camera calibration data (user defined storage for intrinsic / extrinsic camera parameters, and geometry distortion values)</li> <li>Customer data storage (128 bytes user defined)</li> </ul>
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Internal image buffer	<ul style="list-style-type: none"> <li>124 MB</li> <li>8 images (Trigger Mode)</li> <li>1 image (Free Running Mode)</li> </ul>
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### 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)
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Process interface	M8 / 8 pins (SACC-DSI-M8MS-8CON-M8-L180)
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Power supply	via M8/8 pins or Power over Ethernet (PoE)
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### 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
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### 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	<ul style="list-style-type: none"> <li>1 input line</li> <li>1 output line</li> <li>2 general purpose lines</li> </ul>
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Output line sources	<ul style="list-style-type: none"> <li>Off</li> <li>Exposure Active</li> <li>Timer1</li> <li>Readout Active</li> <li>UserOutput 1-3</li> <li>TriggerReady</li> </ul>
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### Conformity

Conformity	<ul style="list-style-type: none"> <li>CE</li> <li>RoHS</li> <li>UL recognized</li> </ul>
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