

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)
-----------------	---

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
---------------	--

V CXG.2-83UV

Gigabit Ethernet, 8 Megapixel, Ultraviolet

Article number: 11728871

Technical data

Camera features

Process Synchronization	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> User Set Integrated temperature sensor (InHouse and Sensor) Readable additional information (e.g. sensor information) Save Custom Data
----------------------	---

Calibration data	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 1 input line 1 output line 2 general purpose lines
-------	--

Output line sources	<ul style="list-style-type: none"> Off Exposure Active Timer1 Readout Active UserOutput 1-3 TriggerReady
---------------------	--

Conformity

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