

VLXT-83UV.I

10 Gigabit Ethernet, 8.0 Megapixel, Ultraviolet

Article number: 11725745

Overview

- 2848 × 2832 px
- Sony IMX487
- 2/3" CMOS
- 150 fps
- 10 GigE



GEN*i*CAM



Technical data

Sensor information

Sensor	Sony IMX487
Mono/Color	UV
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. 150 fps Binning 2×2, 1424 × 1416 px, max. 172 fps Binning 2×1, 1424 × 2832 px, max. 172 fps Binning 1×2, 2848 × 1416 px, max. 172 fps
Image formats, acquisition frame rate max. (Burst Mode)	Full Frame, 2848 × 2832 px, max. 172 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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Image preprocessing

Color models	Mono Raw Bayer RGB BGR
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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
Trigger delay	0 ... 2 sec, tracking and buffering of up to 256 trigger signals

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Camera features

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 127 images (Trigger Mode) 1 image (Free Running Mode)

Interfaces and connectors

Data interface	10 Gigabit Ethernet, Transfer rate 10000 Mb/Sec, Gigabit Ethernet, Transfer rate 1000 Mb/Sec, Fast Ethernet, Transfer rate 100 Mb/Sec, Connector: M12 / 8-pol x-coded (SACC-CI-M12FS-8CON-L180-10G)
Process interface	M12 / 12 pins a-coded (SACC-CI-M12MS-12CON-L180)

Interfaces and connectors

Power supply via M12/12 pins a-coded

Mechanical data

Lens mount	C-mount
Width	60 mm
Height	60 mm
Depth	99.7 mm
Weight	≤ 485 g
Material	aluminum, hard-anodized

Electrical data

Voltage supply range +Vs	19.2 ... 28.8 V DC (external power supply)
Power consumption	Approx. 12.7 W @ 24 VDC and 150 fps

Non-volatile memory

Flash memory size	128 kB
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Environmental conditions

Operating temperature	0 ... +60 ° @ T = measurement point
Humidity	0 ... 90 % (non-condensing)
Protection class	IP 40 IP 54 (with mounted lens and cable) IP 65 (with mounted tube and cable) IP 67 (with mounted tube and cable)

Digital I/Os

Lines	2 input lines 4 power output lines with pulse width modulation (PWM) (max. 48 V / max. 2.5 A) RS232
Output line sources	Off Exposure Active Timer1 Readout Active User0 User1 User2 TriggerReady

Conformity

Conformity	CE RoHS
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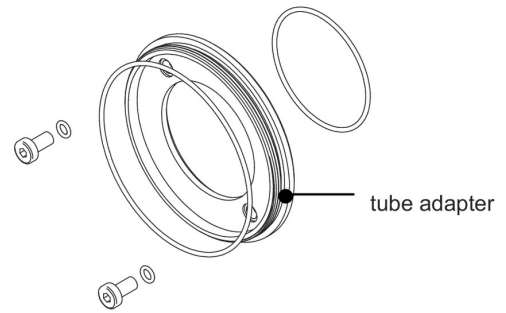
Article number: 11725745

Dimension drawing



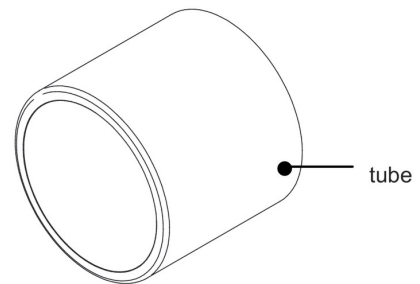
Principle

Optional accessories for protection class IP 65/67:



tube adapter

- hard-anodized, incl. sealing and screws
 \varnothing 49,5 mm (VCXG.I 11185373)
 \varnothing 65 mm (VCXG.I 11185377)
 \varnothing 95 mm (VCXG.I 11704311)
 \varnothing 65 mm (VLXT 11193125)
 \varnothing 95 mm (VLXT.EF 11704315)



tube

- hard-anodized, cover glass PMMA
 \varnothing 49,5 mm, Length 44 mm (11185370)
 \varnothing 65 mm, Length 58 mm (11185374)
 \varnothing 95 mm, length 70 mm (11704312)
- hard-anodized, tempered laminated safety glass
 \varnothing 49,5 mm, Length 44 mm (11701124)
 \varnothing 65 mm, Length 58 mm (11701125)