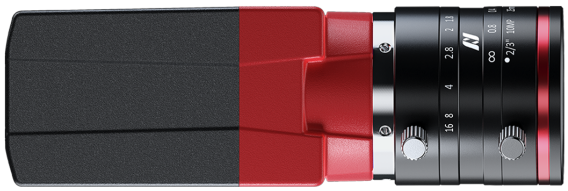
Allied Vision

5GiGE VISION

Alvium
G5-812 UV



- IMX487 CMOS sensor
- GigE Vision
- High bandwidths
- 2 lens mount options

Model without hardware options

Alvium G5 - Speed up your vision application

5GigE Vision camera for demanding applications

Alvium G5-812 UV with Sony IMX487 runs 58 frames per second at 8.1 MP resolution.

The Alvium G5 camera series combines the advantages of the 5GigE interface for higher bandwidth and the flexibility of the Alvium platform offering various mount and sensor options. It enables an easy upgrade of existing systems (USB3 Vision or GigE Vision) and offers backwards compatibility with 1000BASE-T solutions. Powered by ALVIUM® Technology, the sugar cube Alvium G5 camera delivers highest image quality at a low power consumption.

Easy software integration with Vimba X and compatibility to the most popular third party image-processing libraries.

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Specifications

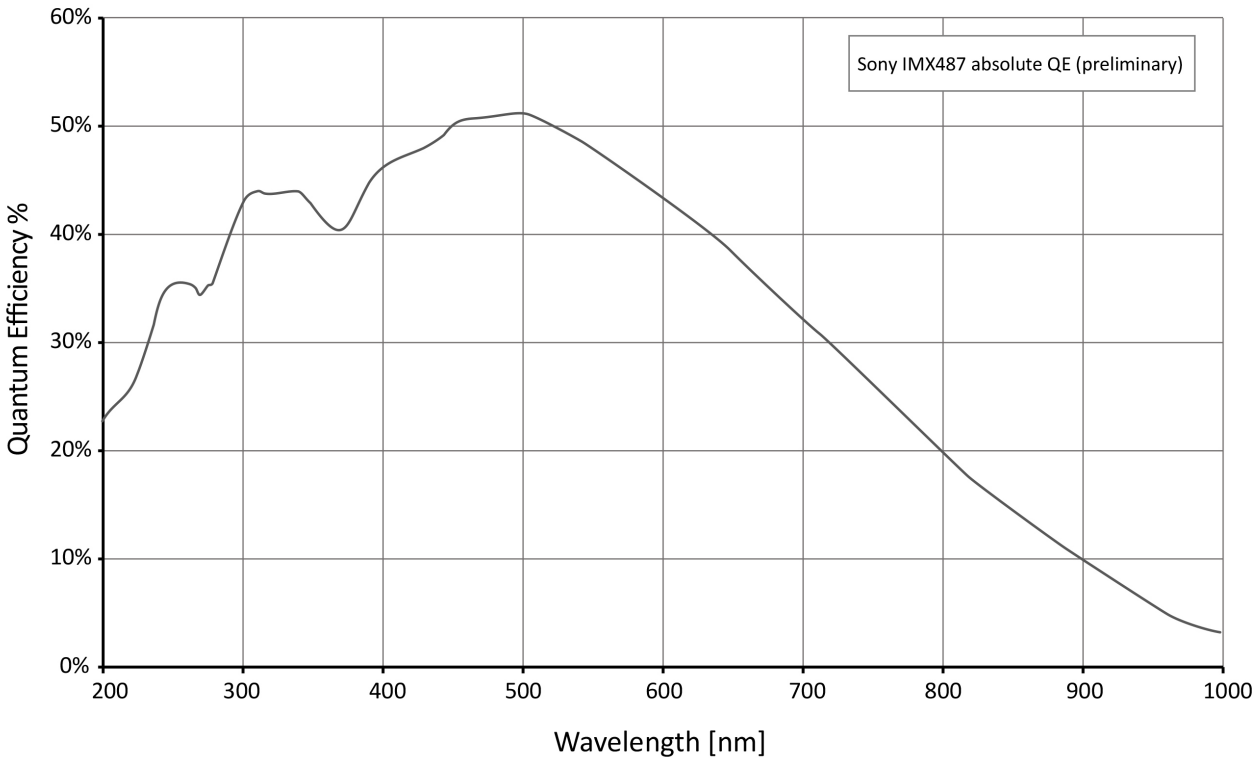
Interface	IEEE 802.3: 5GBASE-T or 2.5GBASE-T (NBASE-T) and 1000BASE-T, IEEE 802.3af Power Class 0 PoE
Resolution	2848 (H) × 2848 (V)
Spectral range	200 to 1000 nm
Sensor	Sony IMX487
Sensor type	CMOS
Shutter mode	GS (Global shutter)
Sensor size	Type 2/3
Pixel size	2.74 µm × 2.74 µm
Lens mounts (available)	C-Mount, CS-Mount
Max. frame rate at full resolution	58 fps at 525 MByte/s, Mono8
ADC	12 Bit
Image buffer (RAM)	512 MByte
Non-volatile memory (Flash)	1024 KByte

Output	
Bit depth	12-bit
Monochrome pixel formats	Mono8 (default), Mono10, Mono10p, Mono12, Mono12p, Mono12Packed

General purpose inputs/outputs (GPIOs)	
TTL I/Os	2 GPIOs (LVTTL)
Opto-isolated I/Os	1 input, 1 output

Operating conditions/dimensions	
Operating temperature	-20 °C to +60 °C housing temperature
Power requirements (DC)	10.8 to 26.4 VDC AUX | IEEE 802.3af, Power Class 0 PoE
Power consumption	External power: 7.2 W at 12 VDC (typical) | Power over Ethernet: 7.6 W (typical)
Mass	100 g
Body dimensions (L × W × H in mm)	60 × 29 × 29

Quantum efficiency



Features

Image control: Auto

- Auto exposure
- Auto gain

Image control: Other

- Adaptive noise correction
- Binning: Digital
- Binning: Sensor (mono models)
- Black level
- Contrast
- Custom convolution
- DPC (defect pixel correction)
- FPNC (fixed pattern noise correction)
- Gamma
- Lens shading correction
- LUT (look-up table)
- Multiple ROIs (regions of interest)
- Reverse X/Y
- ROI (region of interest)
- Sharpness/Blur

Camera control

- Acquisition frame rate
- Action commands, incl. ToE (trigger over Ethernet)
- Bandwidth control
- Burst mode
- Counters and timers
- Event channel
- Firmware update in the field
- I/O and trigger control
- Image chunk data
- Power Saving Mode
- PTP (IEEE 1588 Precision Time Protocol)
- Sequencer
- Serial I/Os
- Temperature monitoring
- User sets

Technical drawing