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Alvium
G5-130 VSWIR

- IMX990 InGaAs sensor
- GigE Vision
- High bandwidths
- 3 lens mount options

Model without hardware options

Alvium G5 - 5GigE Vision camera for demanding applications

Speed up your vision application

Alvium G5-130 VSWIR with Sony IMX990 runs 130.0 frames per second at 1.3 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 Allied Vision's Vimba Suite and compatibility to the most popular third party image-processing libraries.

Allied Vision

Specifications

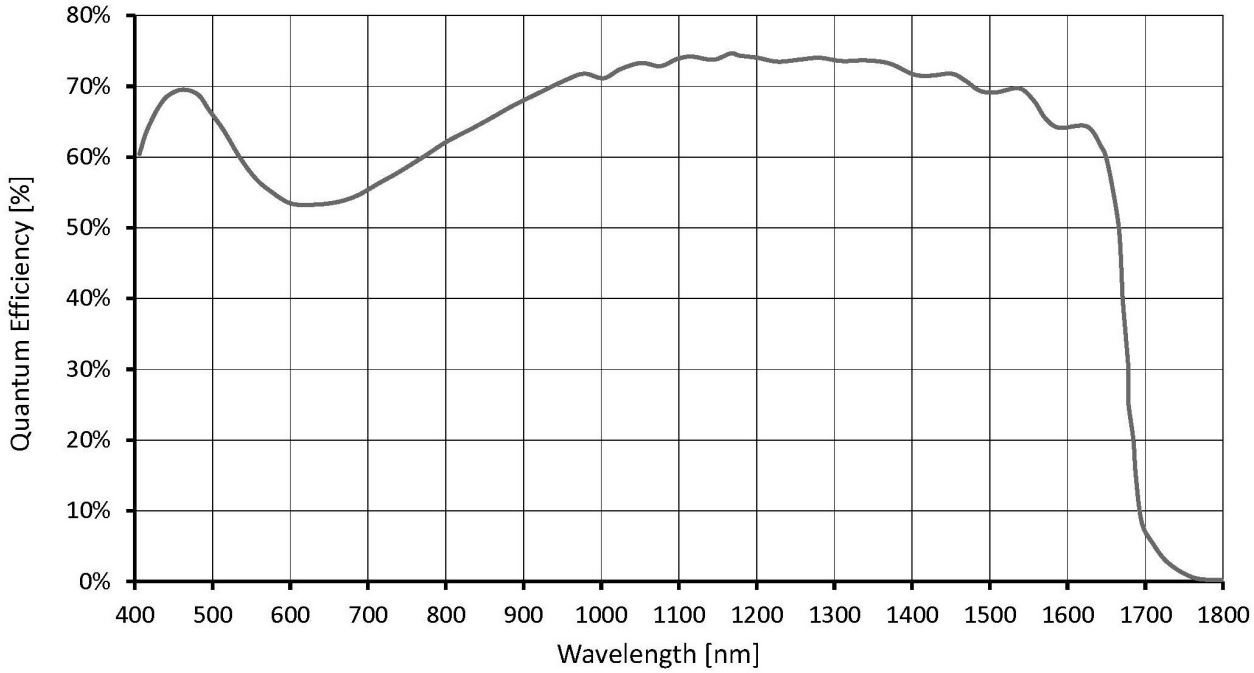
Interface	IEEE 802.3 5GBASE-T, 1000BASE-T, IEEE 802.3af Power Class 0 PoE
Resolution	1296 (H) × 1032 (V)
Spectral range	400 to 1700 nm
Sensor	Sony IMX990
Sensor type	InGaAs
Shutter mode	Global shutter
Sensor size	Type 1/2 VSWIR
Pixel size	5 µm × 5 µm
Lens mounts (available)	C-Mount, CS-Mount, S-Mount
Max. frame rate at full resolution	130 fps at >=300 MByte/s, Mono8
ADC	12 Bit
Image buffer (RAM)	512 MByte
Non-volatile memory (Flash)	1024 KByte

Output	
Bit depth	8-bit, 10-bit, 12-bit; Adaptive (10-bit, 12-bit) Bit
Monochrome pixel formats	Mono8, Mono10, Mono10p, Mono12, Mono12p

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

Operating conditions/dimensions	
Operating temperature	+5 °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: 4.9 W at 12 VDC (typical) | Power over Ethernet: 5.7 W (typical)
Mass	100 g
Body dimensions (L × W × H in mm)	60 × 29 × 29

Quantum efficiency



Features

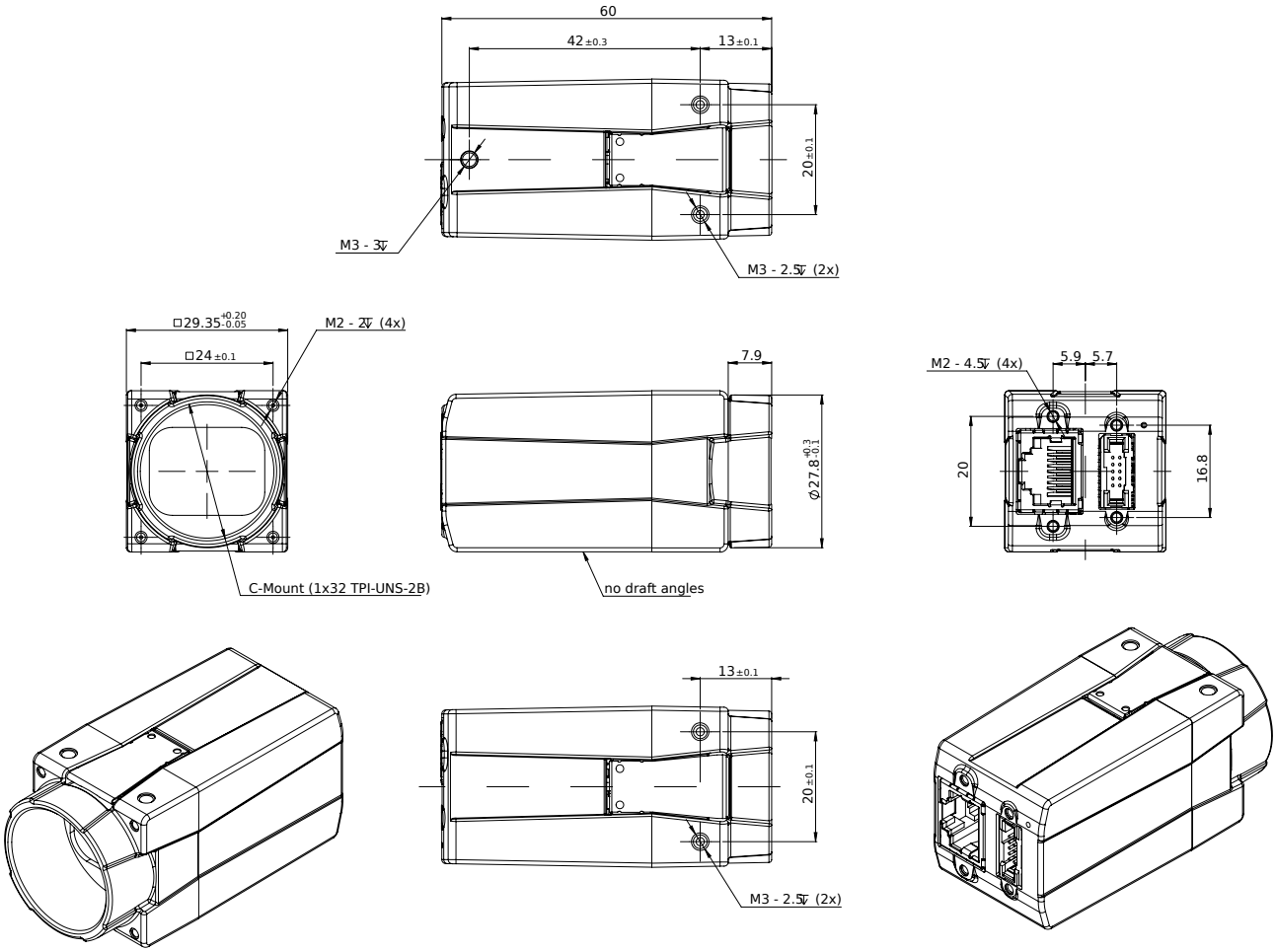
Image control: Auto

- Auto exposure
- Auto gain
- Auto white balance (color models)

Image control: Other

- Adaptive noise correction
- Binning
- Black level
- Color transformation (incl. hue, saturation; color models)
- Contrast
- Custom convolution
- De-Bayering up to 5×5 (color models)
- DPC (defect pixel correction)
- Gamma
- LUT (look-up table)
- Reverse X/Y
- ROI (region of interest)
- Sharpness/Blur

Camera control

- Acquisition frame rate
- Action commands, incl. ToE (trigger over Ethernet)
- Bandwidth control
- Counters and timers
- Firmware update in the field
- I/O and trigger control
- Readout modes (SensorBitDepth)
- Serial I/Os
- Temperature monitoring
- User sets

Technical drawing