



- IMX267 CMOS sensor
- GigE Vision
- High bandwidths
- 2 lens mount options

Model without hardware options

### **Alvium G1 – Reliability designed for the future**

Compact GigE camera for constant image quality

Alvium G1-895 with Sony IMX267 runs 13.0 frames per second at 8.9 MP resolution.

Alvium G1 is the first GigE Vision camera powered by ALVIUM® Technology, Allied Vision's ASIC chip. It combines the advantages of the established GigE Vision standard with the flexibility of the Alvium platform. In addition to a comprehensive feature set and a broad sensor selection, it offers great versatility. With its very compact housing and industrial standard hardware, it can easily be integrated into any vision system while ensuring long-term availability and reliability.

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

## Specifications

Interface	IEEE 802.3 1000BASE-T, IEEE 802.3af (PoE)
Resolution	4112 (H) × 2176 (V)
Spectral range	300 to 1100 nm
Sensor	Sony IMX267
Sensor type	CMOS
Shutter mode	GS (Global shutter)
Sensor size	Type 1
Pixel size	3.45 μm × 3.45 μm
Lens mounts (available)	C-Mount, CS-Mount
Max. frame rate at full resolution	13 fps at 122 MByte/s, Mono8
ADC	12 Bit
Image buffer (RAM)	32 MByte
Non-volatile memory (Flash)	1024 KByte

## Output

Bit depth	12-bit
Monochrome pixel formats	Mono8, Mono10, Mono10p, Mono12, Mono12p, Mono12Packed
YUV color pixel formats	YCbCr411_8_CbYYCrYY, YCbCr422_8_CbYCrY, YCbCr8_CbYCr
RGB color pixel formats	RGB8 (default), BGR8
Raw pixel formats	BayerRG8, BayerRG10, BayerRG10p, BayerRG12, BayerRG12p, BayerRG12Packed

## General purpose inputs/outputs (GPIOs)

TTL I/Os	2 GPIOs (LVTTTL)
Opto-isolated I/Os	1 input, 1 output

## Operating conditions/dimensions

Operating temperature	-20 °C to +65 °C (housing)
Power requirements (DC)	10.8 to 26.4 VDC AUX   IEEE 802.3af, Power Class 0 PoE

Power consumption	External power: 3.5 W at 12 VDC (typical)   Power over Ethernet: 3.9 W (typical)
Mass	70 g
Body dimensions (L × W × H in mm)	41 × 29 × 29

## 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)
- FPNC (fixed pattern noise correction)
- Gamma
- LUT (look-up table)
- Reverse X/Y
- ROI (region of interest)
- Sharpness/Blur

### Camera control

- Acquisition frame rate
- Bandwidth control
- Counters and timers
- Firmware update in the field
- I/O and trigger control
- Sequencer
- Serial I/Os
- Temperature monitoring
- User sets

Technical drawing

