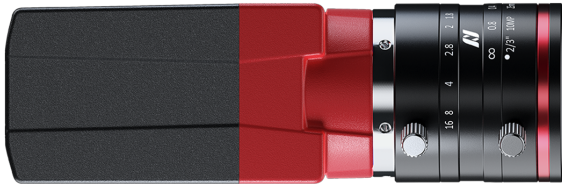


Alvium

G5-1240



- IMX226 CMOS 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 G5-1240 with Sony IMX226 runs 41.0 frames per second at 12.2 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.

Specifications

Interface	IEEE 802.3 5GBASE-T, 1000BASE-T, IEEE 802.3af Power Class 0 PoE
Resolution	4024 (H) × 3036 (V)
Spectral range	300 to 1100 nm
Sensor	Sony IMX226
Sensor type	CMOS
Shutter mode	RS (Rolling shutter)
Sensor size	Type 1/1.7
Pixel size	1.85 µm × 1.85 µm
Lens mounts (available)	C-Mount, CS-Mount
Max. frame rate at full resolution	41 fps at ≥450 MByte/s, Mono8
ADC	10 Bit
Image buffer (RAM)	512 MByte
Non-volatile memory (Flash)	1024 KByte

Output

Bit depth	10-bit Bit
Monochrome pixel formats	Mono8, Mono10, Mono10p
YUV color pixel formats	YCbCr411_8_CbYYCrYY, YCbCr422_8_CbYCrY, YCbCr8_CbYCr
RGB color pixel formats	BayerGR8, BayerGR10, BayerGR10p, BGR8, RGB8 (default)

General purpose inputs/outputs (GPIOs)

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

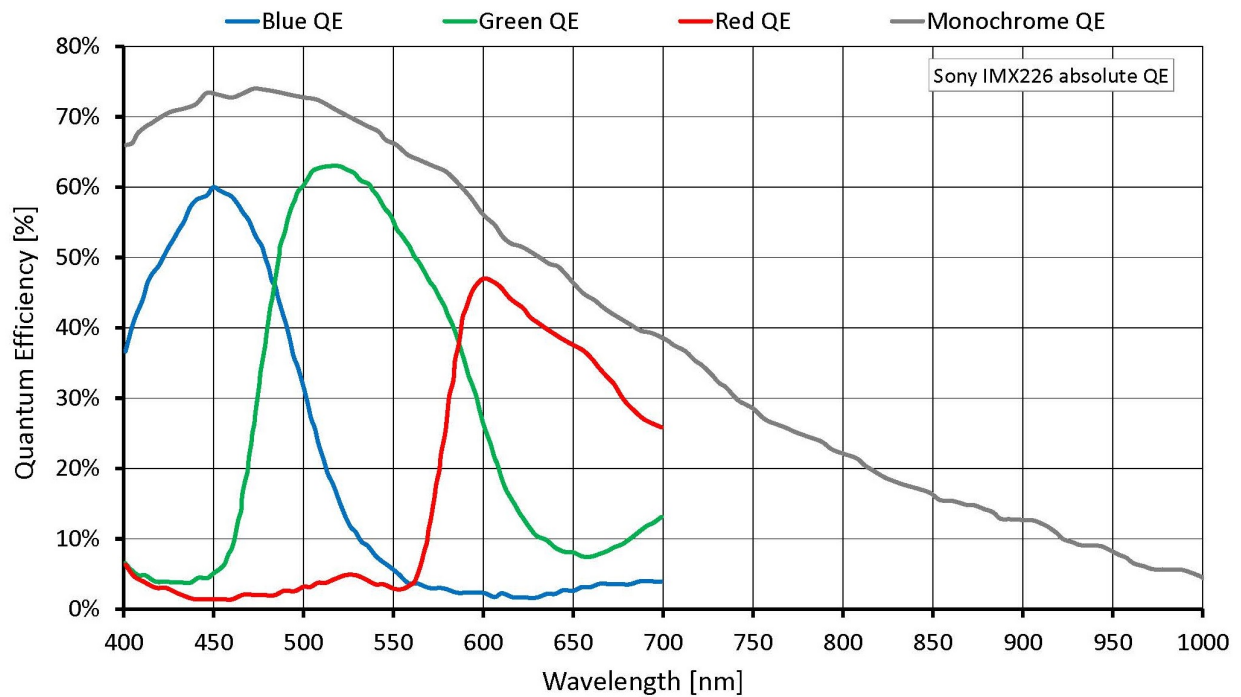
Operating conditions/dimensions

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: 6.1 W at 12 VDC (typical) Power over Ethernet: 6.8 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)
- FPNC (fixed pattern noise 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
- Serial I/Os
- Temperature monitoring
- User sets

Technical drawing

