

ARTISAN®
TECHNOLOGY GROUP

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Allied Vision



Alvium 1800 U-507

- IMX264 CMOS sensor
- ALVIUM image processing
- USB3 Vision
- Various hardware options

Model without hardware options

Alvium 1800 U – Your entry into high-performance imaging

Industrial USB cameras with attractive price-performance ratio

Alvium 1800 U-507 with Sony IMX264 runs 34.0 frames per second at 5.1 MP resolution.

Alvium 1800 U is your entry into high-performance imaging with ALVIUM® Technology for industrial applications. Equipped with the newest generation of sensors, these small and lightweight cameras deliver high image quality and frame rates at the best price-performance ratio. With its USB3 Vision compliant interface and industrial-grade hardware, it is your workhorse for different machine vision applications whether it is on a PC-based or an embedded system.

Easy software integration with Allied Vision's Vimba Suite and compatibility to the most popular third party image-processing libraries.

See the Alvium Cameras Hardware Options for lens mount and housing options, as well as the Customization and OEM Solutions webpage for additional options.

Specifications

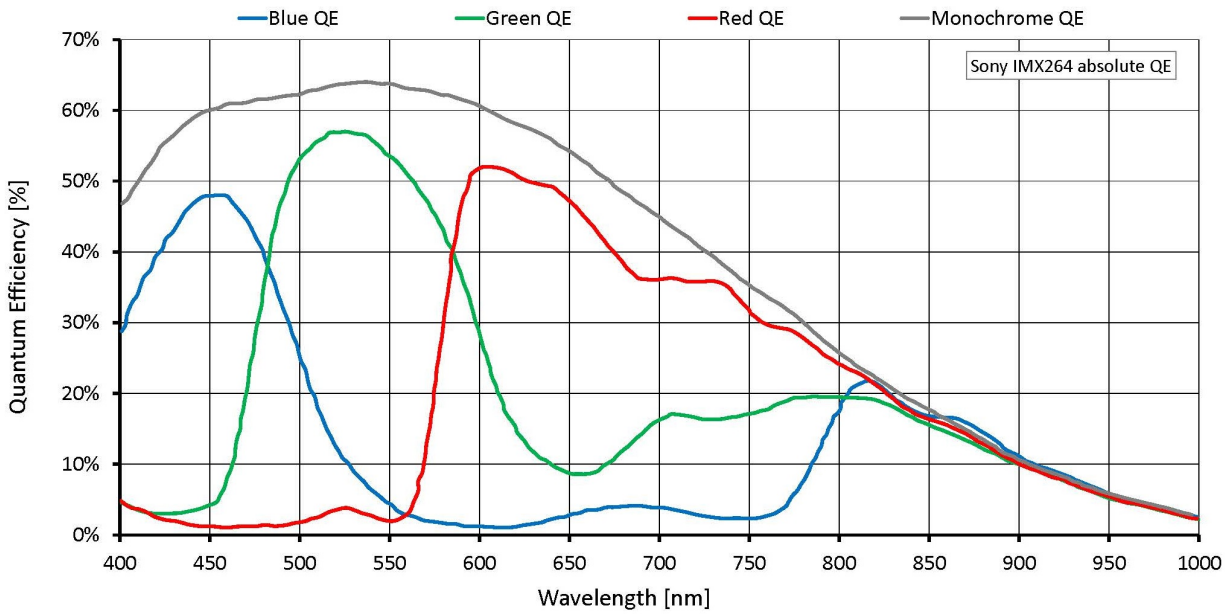
	Alvium 1800 U-507
Interface	USB3 Vision
Resolution	2464 (H) × 2056 (V)
Spectral range	300 to 1100 nm

Allied Vision

Alvium 1800 U-507	
Sensor	Sony IMX264
Sensor type	CMOS
Shutter mode	Global shutter
Sensor size	Type 2/3
Pixel size	3.45 µm × 3.45 µm
Lens mounts (available)	C-Mount
Max. frame rate at full resolution	34 fps at ⩾ 200 MByte/s, Mono8
ADC	12 Bit
Image buffer (RAM)	256 KByte
Non-volatile memory (Flash)	1024 KByte
Imaging performance	
Imaging performance data is based on the evaluation methods in the EMVA 1288 Release 3.1 standard for characterization of image sensors and cameras. Measurements are typical values for monochrome models measured without optical filter.	
Quantum efficiency at 529 nm	64 %
Temporal dark noise	2.1 e^-
Saturation capacity	10400 e^-
Dynamic range	72 dB
Absolute sensitivity threshold	2.7 e^-
Output	
Bit depth	Max. 12 Bit
Monochrome pixel formats	Mono8, Mono10, Mono10p, Mono12, Mono12p
YUV color pixel formats	YCbCr411_8_CbYYCrYY, YCbCr422_8_CbYCrY, YCbCr8_CbYCr
RGB color pixel formats	BayerRG8, BayerRG10, BayerRG10p, BayerRG12, BayerRG12p, BGR8, RGB8 (default)
General purpose inputs/outputs (GPIOs)	
TTL I/Os	4 programmable GPIOs
Operating conditions/dimensions	
Operating temperature	-20 °C to +65 °C (housing)
Power requirements (DC)	Power over USB 3.1 Gen 1 | External power 5.0 V
Power consumption	USB power: 2.0 W (typical) | Ext. power: 2.2 W (typical)

Alvium 1800 U-507	
Mass	60 g
Body dimensions (L × W × H in mm)	38 × 29 × 29
Regulations	2014/30/EU; 2011/65/EU, incl. amendment 2015/863/EU (RoHS); FCC Class B digital device; CAN ICES-003 (B) / NMB-3 (B)

Quantum efficiency



Features

Image control: Auto

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

Image control: Other

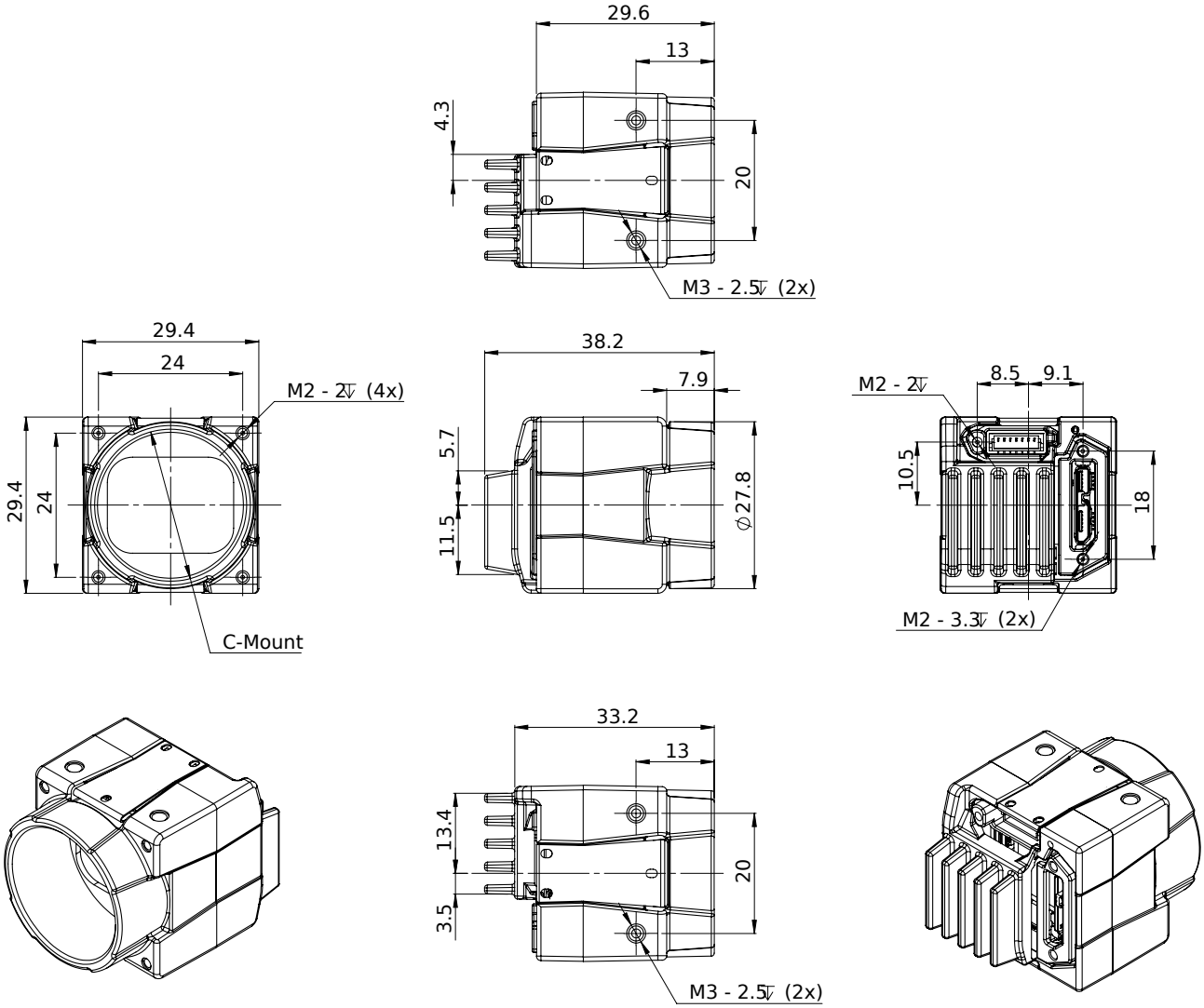
- Adaptive noise correction

- 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
- Bandwidth control
- Firmware update in the field
- I/O and trigger control
- Readout modes (SensorBitDepth)
- Temperature monitoring
- U3 Power Saving Mode
- User sets

Technical drawing



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