Allied Vision

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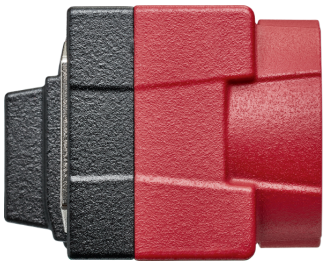
Alvium 1800 U-2460c



- IMX540 CMOS sensor
- ALVIUM image processing
- USB3 Vision
- Various hardware options

Hardware option: Closed Housing C-Mount Standard

Alvium 1800 U – Your entry into high-performance imaging

Industrial USB cameras with attractive price-performance ratio

Alvium 1800 U-2460 with Sony IMX540 runs 14.0 frames per second at 24.6 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-2460c Closed Housing C-Mount Standard	
Product code	15191
Interface	USB3 Vision
Resolution	5328 (H) × 4608 (V)

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Alvium 1800 U-2460c Closed Housing C-Mount Standard	
Spectral range	300 to 1100 nm
Sensor	Sony IMX540
Sensor type	CMOS
Shutter mode	Global shutter
Sensor size	Type 1.2
Pixel size	2.74 µm × 2.74 µm
Lens mount	C-Mount
Optical Filter	Type Hoya C5000 IR cut filter
Max. frame rate at full resolution	14 fps at ⩾ 375 MByte/s, Mono8
ADC	12 Bit
Image buffer (RAM)	256 KB
Non-volatile memory (Flash)	1024 KB
Output	
Bit depth	Max. 12 Bit
Monochrome pixel formats	Mono8, Mono10
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	+5 °C to +65 °C (housing)
Power requirements (DC)	Power over USB 3.1 Gen 1 | External power 5.0 V
Power consumption	USB power: 4.0 W (typical) | Ext. power: 4.2 W (typical)
Mass	65 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)

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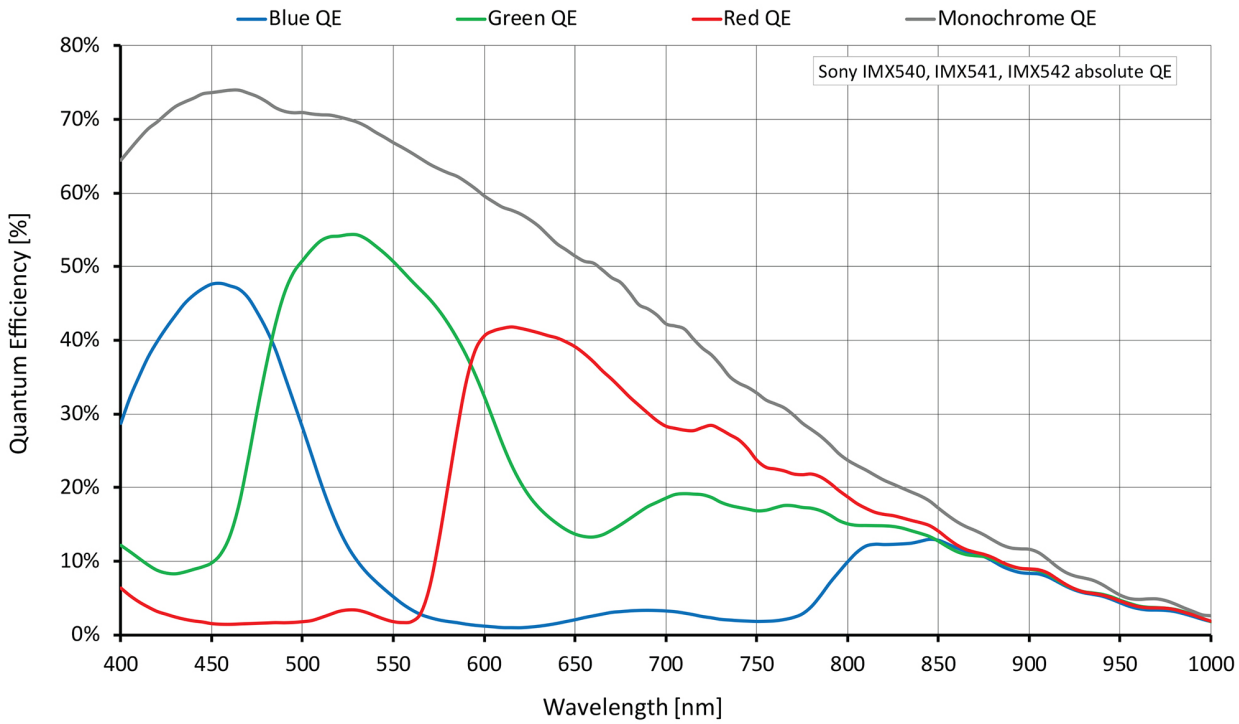
Quantum efficiency



Features

Image control

Auto control

- Auto exposure
- Auto gain
- Auto white balance (color models)
- Auto features regions control
- Auto features algorithms control

Other image controls

- Black level
- Contrast

- De-Bayering up to 5×5 (color models)
- Exposure time
- Gain
- Gamma
- Hue (color models)
- Saturation (color models)
- DPC (factory calibrated)
- FPNC (factory calibrated)
- Region of interest (ROI)
- Reverse X/Y

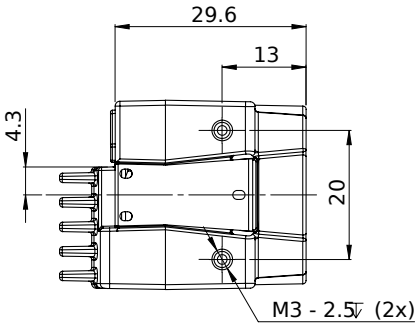
Camera control

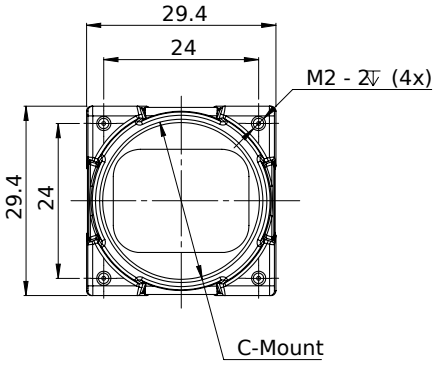
- Sync out modes: Trigger ready, input
- Temperature monitoring (sensor board)
- LED luminance control
- Firmware update

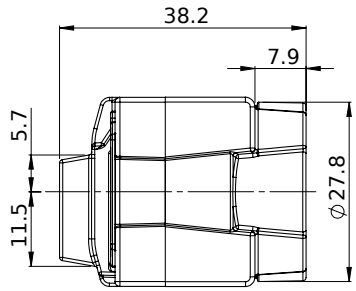
Technical drawing

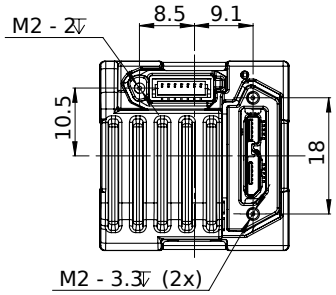
Camera hardware options

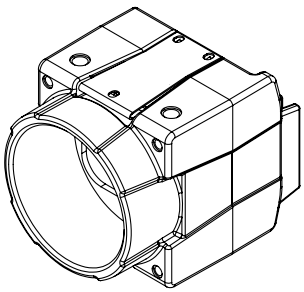
The Alvium Cameras Hardware Options document informs about submodels, such as bare board or open housing cameras with different lens mounts.

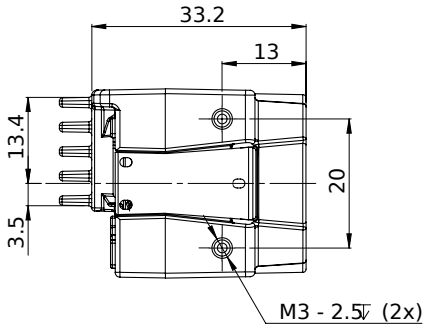
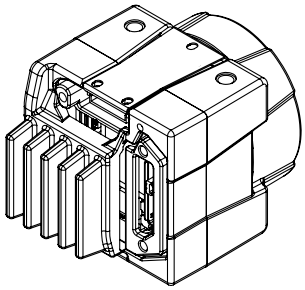

29.6
13
4.3
20
M3 - 2.5↧ (2x)


29.4
24
M2 - 2↧ (4x)
29.4
24
C-Mount


38.2
7.9
5.7
11.5
⌀27.8


M2 - 2↧
8.5
9.1
10.5
18
M2 - 3.3↧ (2x)




33.2
13
13.4
3.5
20
M3 - 2.5↧ (2x)