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## **Alvium** 1800 U-2460m

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

Hardware option: Open Housing C-Mount 90°

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<sup>®</sup> 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

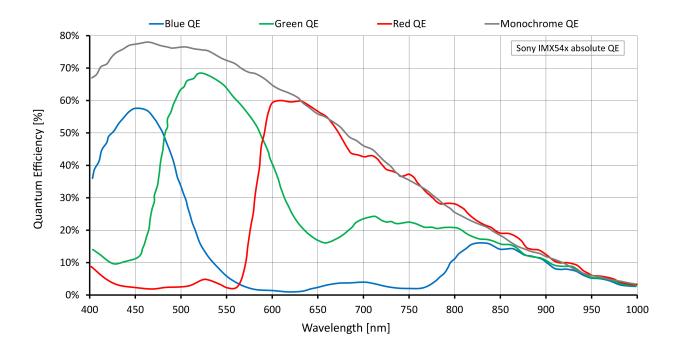
	Alvium 1800 U-2460m Open Housing C-Mount 90°
Product code	15198
Interface	USB3 Vision
Resolution	5328 (H) × 4608 (V)



Alvium 1800 U-2460m Open Housing C-Mount 90°			
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		
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, Mono10p, Mono12, Mono12p		
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	50 g		
Body dimensions (L $\times$ W $\times$ H in mm)	30 × 32 × 29		
Regulations	2011/65/EU, including amendment 2015/863/EU (RoHS)		



## 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

- Binning
- 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

- Acquisition frame rate
- I/O and trigger control
- Temperature monitoring (sensor board)
- Status LED luminance control
- Firmware update in the field
- U3 Power Saving Mode

## 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.



