

## Alvium 1800 U-2460m

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

Hardware option: Bare Board 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 17.0 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 **Vimba X** and compatibility to the most popular third party image-processing libraries.

In addition to lens mount and housing options, see [Customization and OEM Solutions webpage](#) for additional options.

## Specifications

Product code	15185
Interface	USB3 Vision
Resolution	5328 (H) × 4608 (V)
Spectral range	300 to 1100 nm
Sensor	Sony IMX540
Sensor type	CMOS
Shutter mode	GS (Global shutter)
Sensor size	Type 1.2
Pixel size	2.74 μm × 2.74 μm
Lens mounts (available)	C-Mount, CS-Mount
Max. frame rate at full resolution	17 fps at 450 MByte/s, Mono8
ADC	12 Bit
Image buffer (RAM)	256 KByte
Non-volatile memory (Flash)	1024 KByte

## Output

Bit depth	12-bit Bit
Monochrome pixel formats	Mono8, Mono10, Mono10p, Mono12, Mono12p

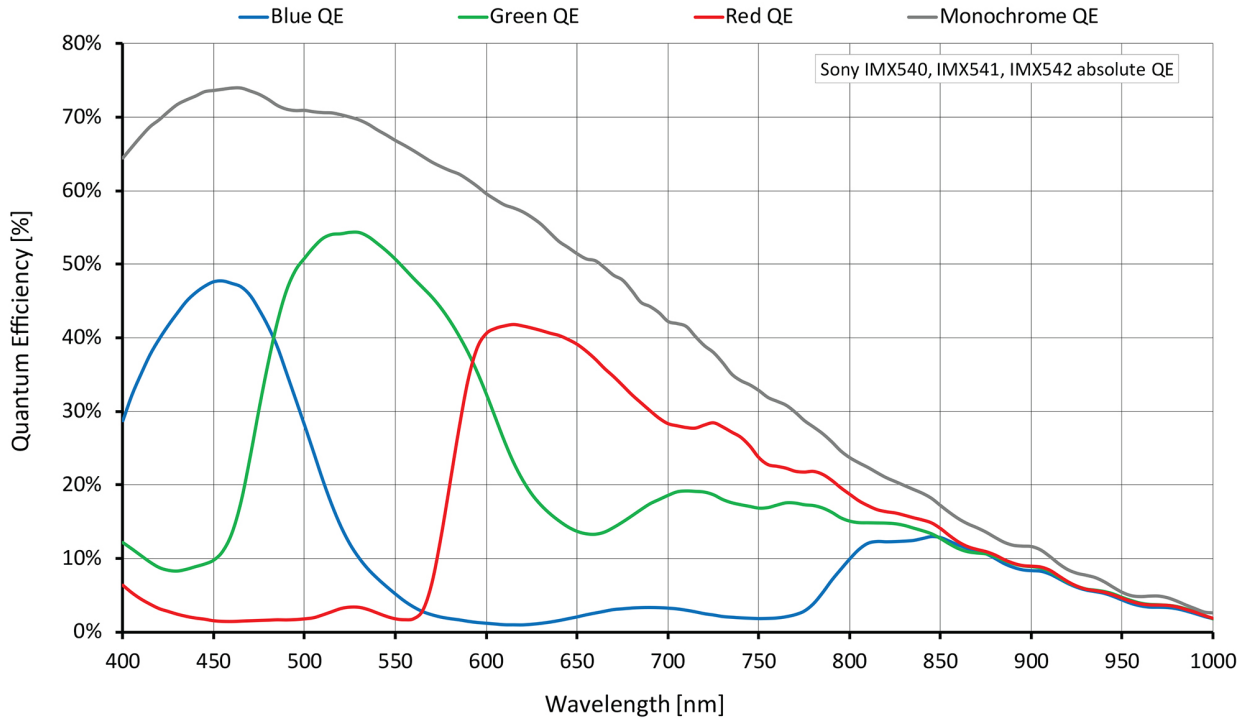
## General purpose inputs/outputs (GPIOs)

TTL I/Os	4 programmable GPIOs
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## Operating conditions/dimensions

Operating temperature	-20 °C to +85 °C (cooling areas)
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	15 g
Body dimensions (L × W × H in mm)	14 × 26 × 26

# 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
- Counters and timers
- Firmware update in the field
- I/O and trigger control
- Sequencer
- Serial I/Os
- Temperature monitoring
- U3 Power Saving Mode
- User sets

Technical drawing

