Allied Vision

Alvium C

Alvium 1800 C-1242



Alvium 1800 C-1242 innovative MIPI CSI-2 camera with Sony IMX545 CMOS global shutter sensor provides industrial performance for cost effective embedded applications.

Allgemein

Modell	Alvium 1800 C-1242
Produktserie	Alvium C
Status	Available

Sensor

Sensortyp	Area scan
Chroma	Color, Mono
Spektrum	Visible
Spektralbereich	300 nm to 1100 nm
Auflösung	4,128 × 3,008 (12.40 MP)
Sensormodell	Sony IMX545
Sensorarchitektur (Material)	cmos
Verschlusstyp(en)	Global shutter (GS)
Sensorgröße	11.3 × 8.2 mm (14 mm, Type 1/1.1)
Pixelgröße	2.74 µm × 2.74 µm

Pixelformate

Sensor-Bittiefe	12-bit
Monochrome Pixelformate	GREY, RAW10, RAW12, RAW8, Y10, Y12
YUV-Pixelformate	UYVY, YCbCr411_8_CbYYCrYY, YCbCr422_8_CbYCrY, YCbCr8_CbYCr, YUV422 8-bit
RGB-Pixelformate	BGR8, RGB3, RGB8 (default), RGB888 (default)
Bayer-Pixelformate	BayerGR10, BayerGR10p, BayerGR12, BayerGR12p, BayerGR8

Bildgebungsleistung

Quanteneffizienz @ 529 nm	68 %

Timing und Verstärkung

Max. Bildrate	40 fps
Belichtungszeit	11 µs to 10 s
Verstärkung	0.0 dB to 48.0 dB

I/Os und Stromversorgung

Nicht-isolierte Leitungen	2 programmable GPIOs
Stromversorgung	5 VDC over MIPI CSI-2
Stromverbrauch	Typical: 3.2 W

Betriebsbedingungen

Betriebstemperatur (Gehäuse)	-20 °C to 65 °C ((housing))

Mechanische Eigenschaften

Gehäuseabmessungen (L x B x H in mm)	26 × 29 × 29
Objektivanschluss/-anschlüsse	C-Mount, CS-Mount
Gewicht	40 g

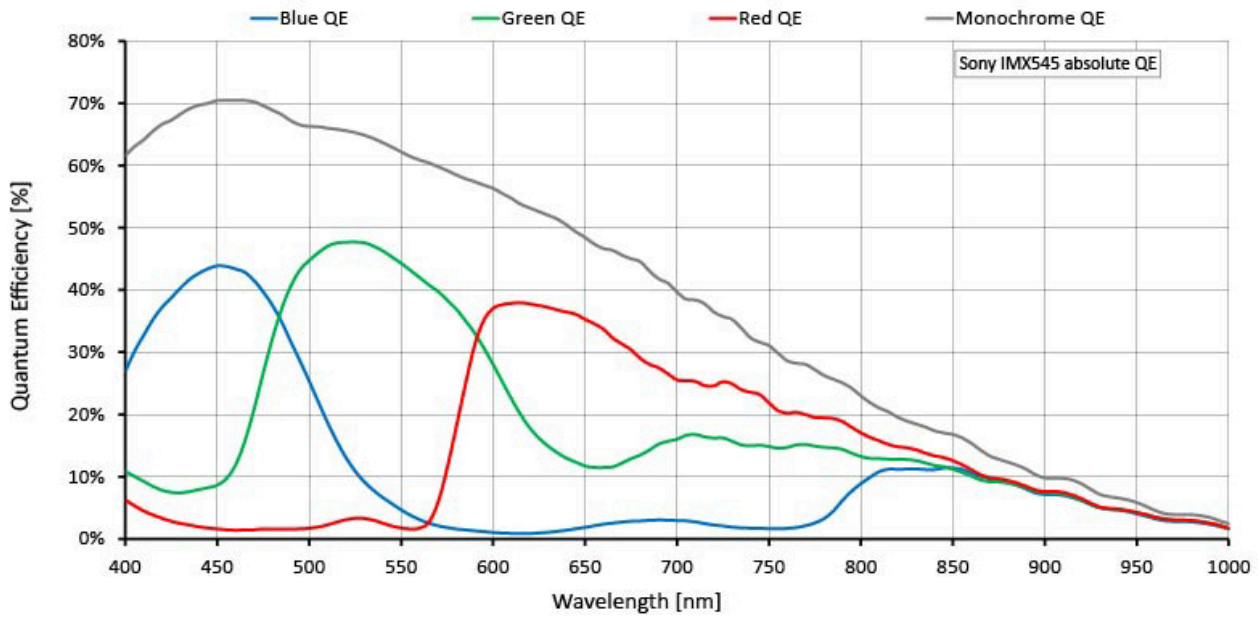
Onboard-Speicher und FPGA

Bildpuffer (RAM)	256 KByte
Nichtflüchtiger Speicher (Flash)	1024 KByte

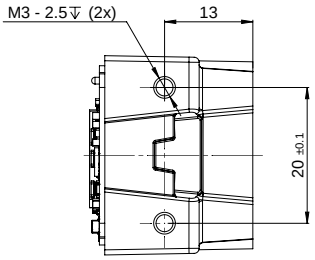
Schnittstellen

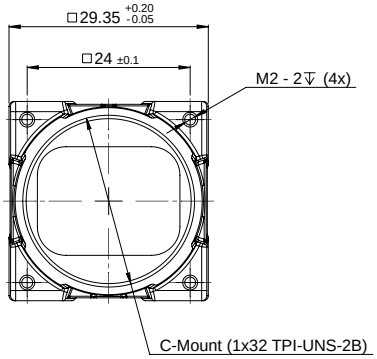
Digitale Schnittstelle	MIPI CSI-2, up to 4 lanes

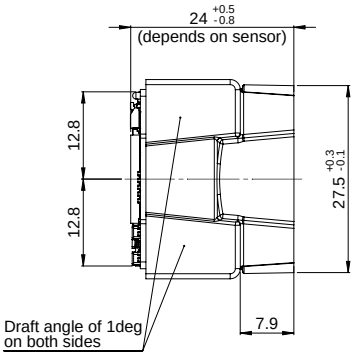
Quanteneffizienz

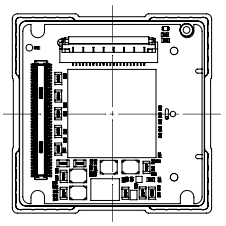


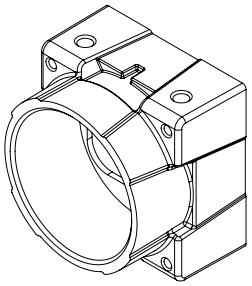
Technische Zeichnung

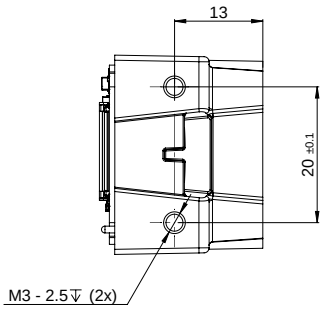


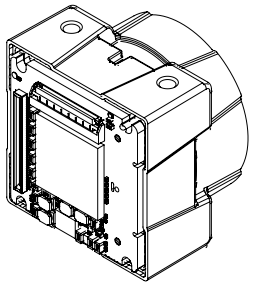












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