Allied Vision

Alvium C

Alvium 1800 C-2040



Alvium 1800 C-2040 innovative MIPI CSI-2 camera with Sony IMX541 CMOS global shutter sensor provides industrial performance for cost effective embedded applications.

일반

모델	Alvium 1800 C-2040
제품 시리즈	Alvium C
상태	Available

센서

센서 유형	Area scan
크로마	Color, Mono
스펙트럼	Visible
스펙트럼 범위	300 nm to 1100 nm
해상도	4,512 × 4,512 (20.40 MP)
센서 모델	Sony IMX541
센서 아키텍처 (소재)	cmos
셔터 유형	Global shutter (GS)
센서 크기	12.4 × 12.4 mm (17.5 mm, Type 1.1)
픽셀 크기	2.74 µm × 2.74 µm

픽셀 형식

센서 비트 심도	12-bit
모노크롬 픽셀 형식	GREY, RAW10, RAW12, RAW8, Y10, Y12
YUV 픽셀 형식	UYVY, YCbCr411_8_CbYYCrYY, YCbCr422_8_CbYCrY, YCbCr8_CbYCr, YUV422 8-bit
RGB 픽셀 형식	BGR8, RGB3, RGB8 (default), RGB888 (default)
베이어 픽셀 형식	BayerGR10, BayerGR10p, BayerGR12, BayerGR12p, BayerGR8

이미징 성능

양자 효율 @ 529 nm	68 %

타이밍 및 게인

최대 프레임 속도	25 fps
노출 시간	11 µs to 10 s
게인	0.0 dB to 48.0 dB

I/O 및 전원

비절연 라인	2 programmable GPIOs
전원 공급 장치	5 VDC over MIPI CSI-2
전력 소비	Typical: 3.7 W

작동 조건

작동 온도 (하우징)	-20 °C to 65 °C ((housing))

기계적 특성

본체 치수 (L x W x H mm)	26 × 29 × 29
렌즈 마운트	C-Mount, CS-Mount
무게	40 g

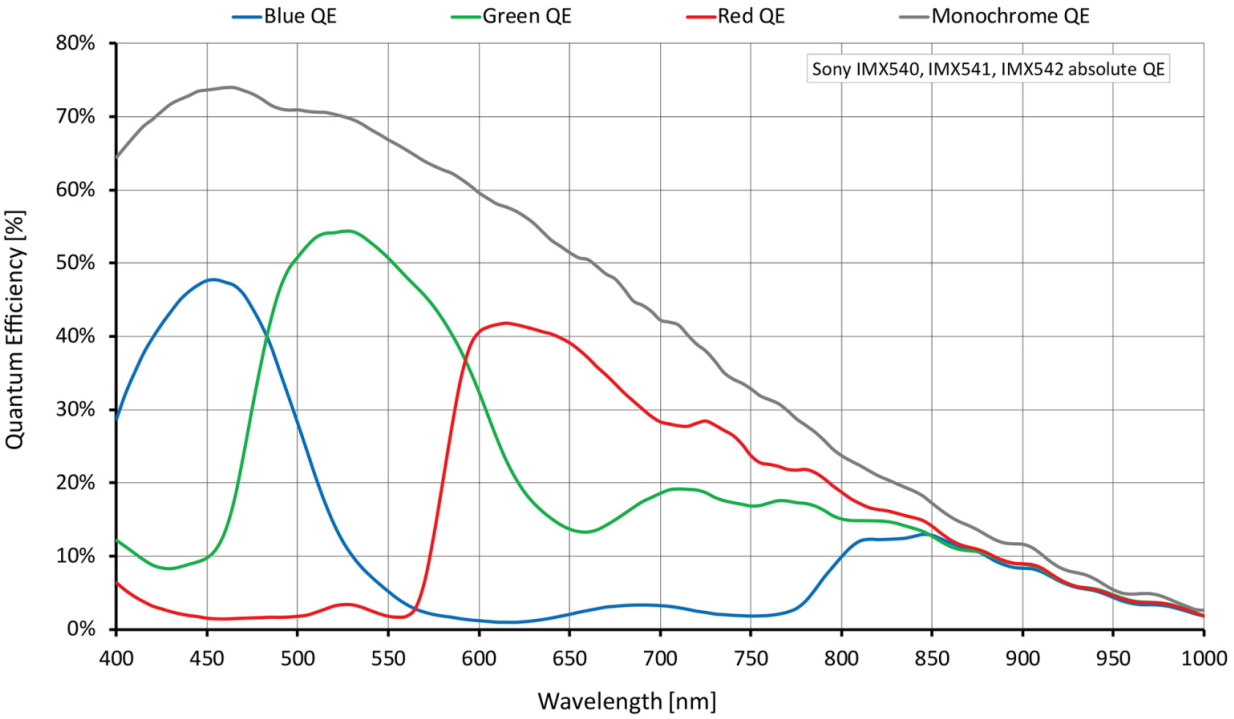
온보드 메모리 및 FPGA

이미지 버퍼 (RAM)	256 KByte
비휘발성 메모리 (플래시)	1024 KByte

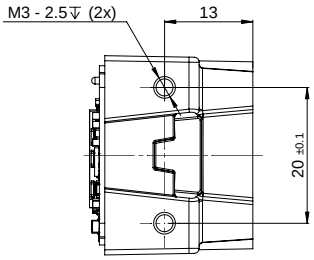
인터페이스

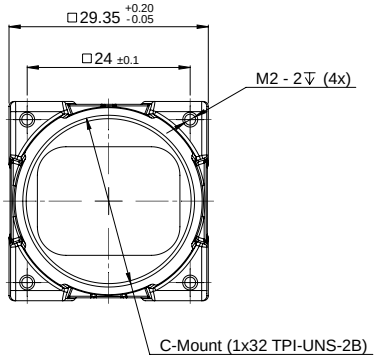
디지털 인터페이스	MIPI CSI-2, up to 4 lanes

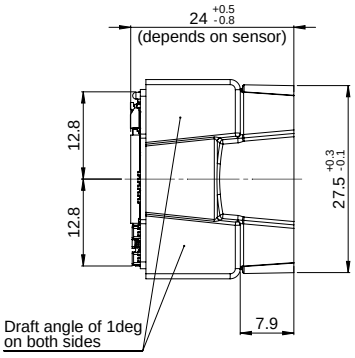
Quantum Efficiency

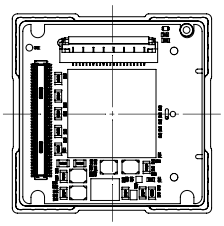


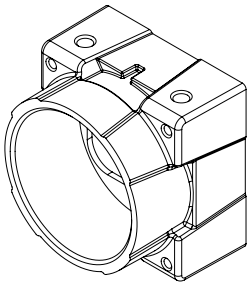
Technical Drawing

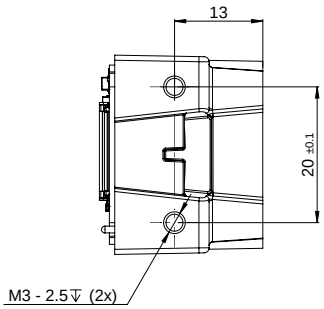


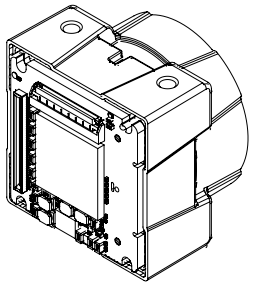












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