Allied Vision

Alvium C

Alvium 1800 C-040



Alvium 1800 C-040 innovative MIPI CSI-2 camera with Sony IMX287 CMOS global shutter sensor provides industrial performance for cost effective embedded vision applications.

常规

型号	Alvium 1800 C-040
产品系列	Alvium C
状态	Available

传感器

传感器类型	Area scan
色度	Color, Mono
光谱	Visible
光谱范围	300 nm to 1100 nm
分辨率	728 × 544 (0.40 MP)
传感器型号	Sony IMX287
传感器架构（材料）	cmos
快门类型	Global shutter (GS)
传感器尺寸	5 × 3.8 mm (6.3 mm, Type 1/2.9)
像素尺寸	6.90 µm × 6.90 µm

像素格式

传感器位深度	10-bit, 12-bit, 8-bit
单色像素格式	GREY, RAW10, RAW12, RAW8, Y10, Y12
YUV像素格式	UYVY, YCbCr411_8_CbYYCrYY, YCbCr422_8_CbYCrY, YCbCr8_CbYCr, YUV422 8-bit
RGB像素格式	BGR8, RGB3, RGB8 (default), RGB888 (default)
拜耳像素格式	BayerGR10, BayerGR10p, BayerGR12, BayerGR12p, BayerGR8

成像性能

量子效率 @ 529 nm	64 %

时序与增益

最大帧率	494 fps
曝光时间	28 µs to 10 s
增益	0.0 dB to 48.0 dB

I/O与电源

非电气隔离IO	2 programmable GPIOs
电源供应	5 VDC over MIPI CSI-2
功耗	Typical: 1.7 W

工作条件

工作温度（外壳	-20 °C to 65 °C ((housing))

机械特性

机身尺寸（L x W x H mm）	26 × 29 × 29
镜头接口	C-Mount, CS-Mount, S-Mount
重量	40 g

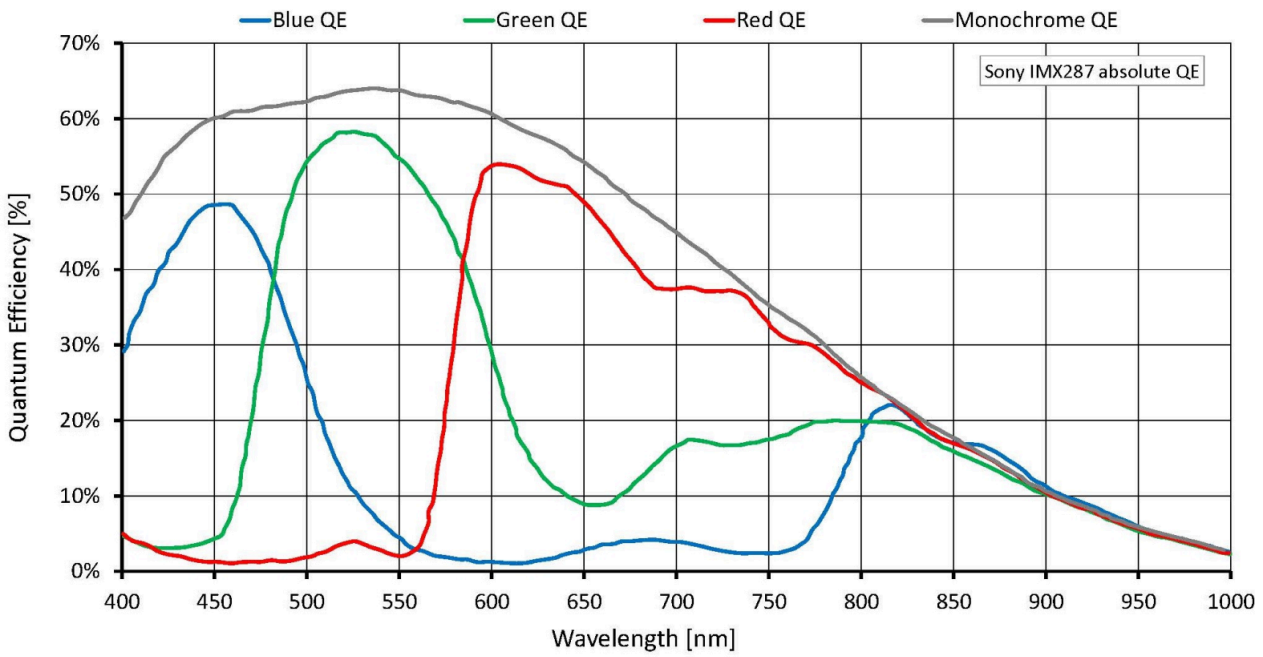
板载内存与FPGA

图像缓存（RAM）	256 KByte
非易失性存储器（闪存）	1024 KByte

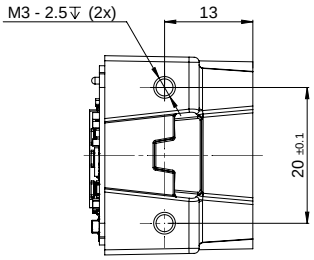
接口

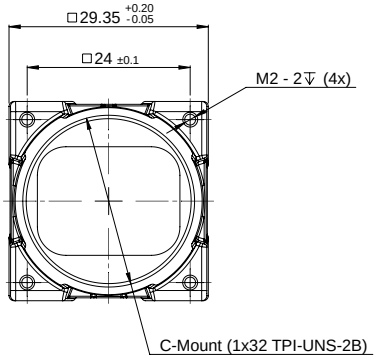
数字接口	MIPI CSI-2, up to 4 lanes

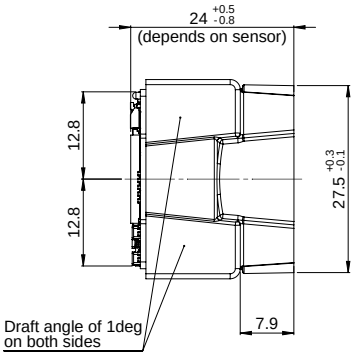
Quantum Efficiency

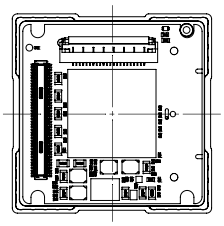


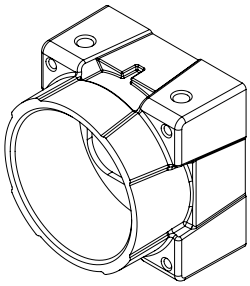
Technical Drawing

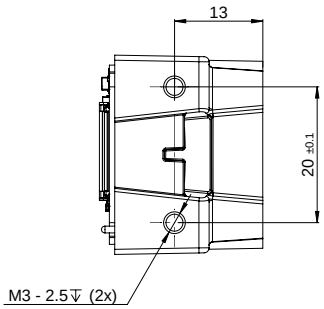


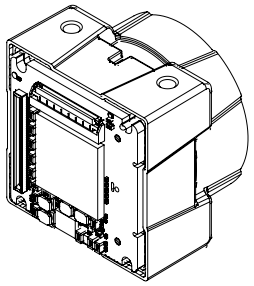












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