

Manta

G-319



- Latest Sony CMOS sensor
- PoE optional
- Angled-head and board level variants
- Video-iris lens control

简化多相机应用设置

搭载千兆网接口的模块化机器视觉相机

Manta G-319 搭载 Sony IMX265 传感器，在 37.6MP 分辨率下速度可达 3.2 帧/秒。

Manta 是 Allied Vision 用途最广泛的千兆网口相机系列。该系列相机可提供最丰富的图像传感器选项，并且凭借先进的功能组合简化了多相机应用设置。模块化硬件概念更是让 Manta 相机可提供近乎无限的配置选择，以灵活满足各种应用的需求。

Easy software integration with Allied Vision's **Vimba Suite** and compatibility to the most popular **third party image-processing libraries**.

See the **Modular Concept** for lens mount, housing variants, optical filters, case design, and other modular options. See the **Customization and OEM Solutions** webpage for additional options.

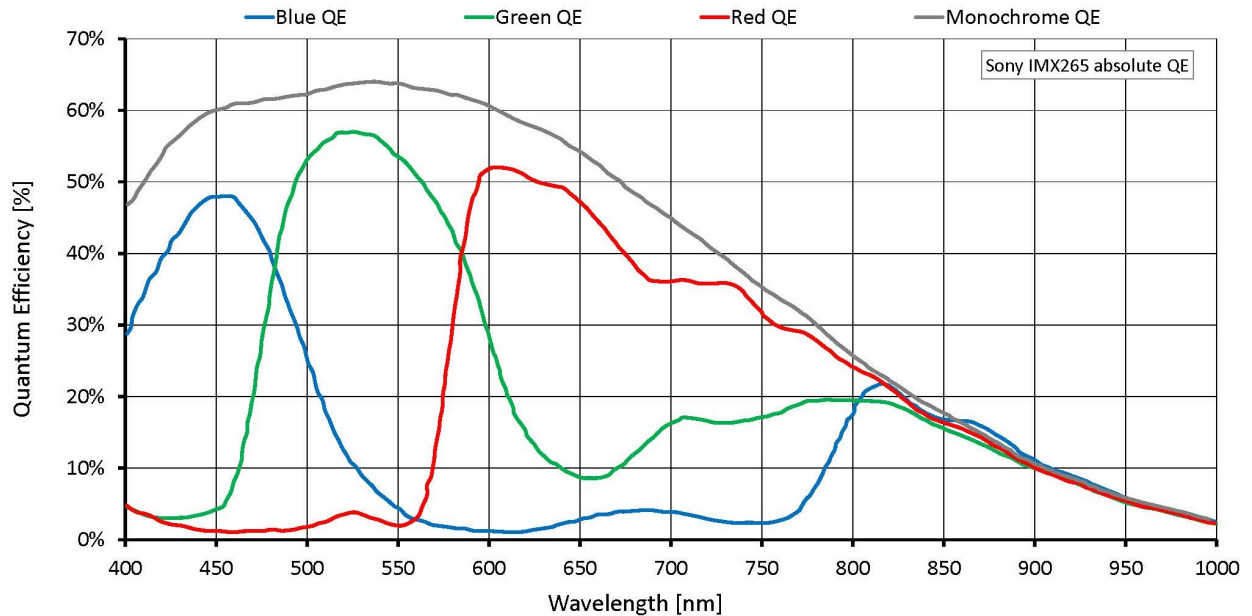
性能参数

Manta G-319	
接口	IEEE 802.3 1000BASE-T, IEEE 802.3af (PoE) optional
分辨率	2064 (H) × 1544 (V)
传感器	Sony IMX265
传感器类型	CMOS
快门种类	Global shutter
传感器尺寸	Type 1/1.8
像元尺寸	3.45 μm × 3.45 μm
Lens mounts (available)	C-Mount, CS-Mount, S-Mount

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最大满帧帧率	37.6 fps
ADC	12 Bit
缓存 (RAM)	128 MByte
非易失性内存 (Flash)	1024 KByte (for selected models only)
成像性能	
成像性能数据是基于欧洲机器视觉协会 (EMVA) 1288 发布的 3.1 版图像传感器和像机特征描述标准中的评估方法。测量值是在没有光学滤波片的全分辨率下，测量单色模型的典型值。请联系销售或工程师了解更多信息。	
在波长为 529nm 下，量子转换效率	64 %
暗噪声	1.9 e ⁻
饱和电子数	10600 e ⁻
动态范围	72.3 dB
绝对灵敏度阈值	2.6 e ⁻
输出	
Bit 位数	8-12 Bit
黑白像素格式	Mono8, Mono12Packed, Mono12
YUV 彩色像素格式	YUV411Packed, YUV422Packed, YUV444Packed
RGB 彩色像素格式	RGB8Packed, BGR8Packed
原始像素格式	BayerRG8, BayerRG12, BayerRG12Packed
通用输入输出 (GPIOs)	
光耦 I/Os	2 inputs, 2 outputs
RS232	1
工作条件/尺寸	
工作温度	+5 °C to +45 °C ambient (without condensation)
电源要求 (DC)	8 to 30 VDC AUX or IEEE 802.3af PoE
功耗	External power: 2.7 W at 12 VDC Power over Ethernet: 3.1 W
重量	190 g; 200 g (PoE)
尺寸 (L × W × H in mm)	86.4 × 44 × 29 (including connectors)
符合规范	CE: 2014/30/EU (EMC), 2011/65/EU, including amendment 2015/863/EU (RoHS); FCC Class B; CAN ICES-3 (B)

量子转换效率



特性

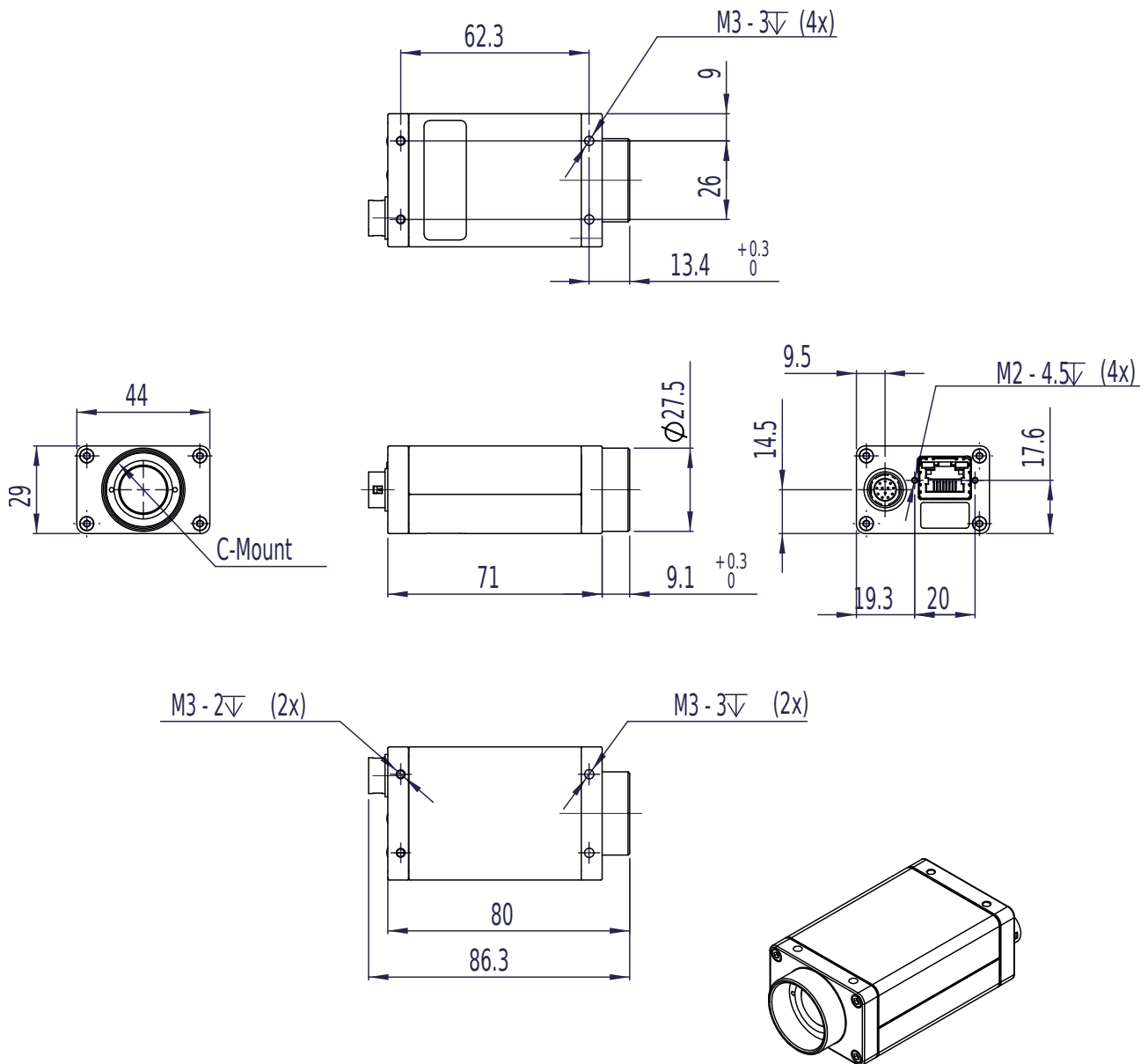
Image optimization features:

- Auto gain (manual gain control: 0 to 40 dB; 0.1 dB increments)
- Auto exposure (exposure time control varies by per pixel format)
- Auto white balance (G-319C only)
- Binning
- Black level (offset)
- Color correction, hue, saturation (G-319C only)
- Decimation
- Gamma correction
- Three look-up tables (LUTs)
- Region of interest (ROI), separate ROI for auto features
- Reverse X/Y

Camera control features:

- Auto-iris (video type)
- Event channel
- Image chunk data
- IEEE 1588 Precision Time Protocol
- Storable user sets
- StreamBytesPerSecond (easy bandwidth control)
- Stream hold
- Sync out modes: Trigger ready, input, exposing, readout, imaging, strobe, GPO
- Tap mode switchable in Vimba Viewer 2.0 or later (two-tap, one-tap)
- Temperature monitoring (main board)
- Trigger over Ethernet (ToE) Action Commands
- Non-volatile memory 1024 KByte (for selected models only)

外形尺寸



应用场景

Manta G-319 is a robust, flexible industrial camera with the sensitive Sony IMX265 sensor. Typical applications:

- Machine Vision

- Broadcast analysis requiring Full HD such as sports analytics
- Industrial inspection
- Security and surveillance
- Intelligent traffic solutions (ITS)/Traffic (traffic monitoring, speed enforcement, toll collection)
- Low light / high sensitivity conditions
- Outdoor applications with dynamic lighting situations