



- Sony IMX287 CMOS sensor
- Power over Ethernet
- IEEE 1588 PTP
- Trigger over Ethernet

以小见大

超紧凑型千兆网接口相机

Mako G-040 搭载 Sony IMX287 传感器，在 286.0MP 分辨率下速度可达 0.4 帧/秒。

Mako G 相机兼容千兆网接口，且配备紧凑、坚固的工业级外壳，价格极具吸引力。其中多款机型配备各种高级功能，如精准时间控制协议 (PTP)、以太网触发 (ToE) 动作指令和以太网供电 (PoE)。RJ45 螺纹接口连接器和多路输入/输出便于系统直接集成。Mako G 相机提供近红外版 (NIR) 和偏光版两种版本供客户选择。

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

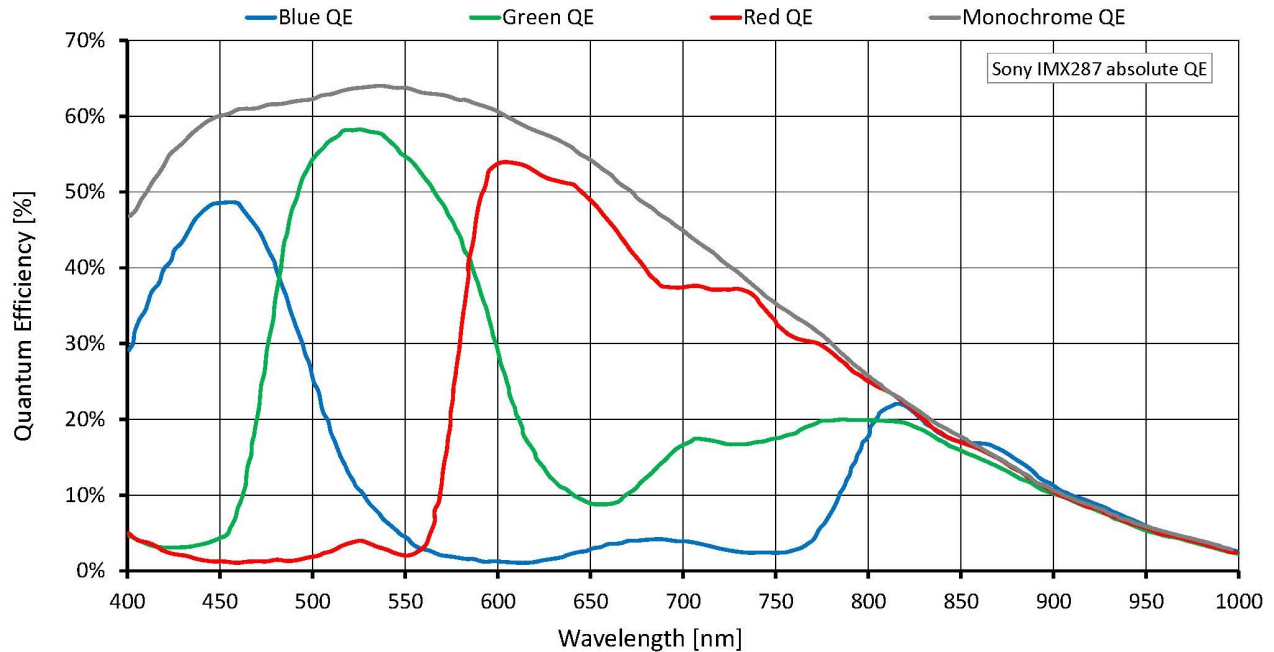
See the **Modular Concept** for lens mount, housing variants, optical filters, case design, and other modular options. See the **Customization and OEM Solutions** webpage for additional options.

性能参数

Mako G-040	
接口	IEEE 802.3 1000BASE-T, IEEE 802.3af (PoE)
分辨率	728 (H) × 544 (V)
传感器	Sony IMX287
传感器类型	CMOS
快门种类	Global shutter
传感器尺寸	Type 1/2.9
像元尺寸	6.9 μm × 6.9 μm
Lens mounts (available)	C-Mount, CS-Mount, S-Mount

Mako G-040	
最大满帧帧率	286 fps
ADC	12 Bit
缓存 (RAM)	64 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	3.2 e ⁻
饱和电子数	21200 e ⁻
动态范围	74.4 dB
绝对灵敏度阈值	4.1 e ⁻
输出	
Bit 位数	12 Bit
黑白像素格式	Mono8, Mono12, Mono12Packed
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	1 input, 3 outputs
工作条件/尺寸	
工作温度	+5 °C to +45 °C housing temperature
电源要求 (DC)	12 to 24 VDC AUX or 802.3at Type 1 PoE
功耗	2.43 W at 12 VDC; 2.69 W PoE
重量	80 g (with C-Mount)
尺寸 (L × W × H in mm)	60.5 × 29.2 × 29.2 (含连接器)
符合规范	CE: 2014/30/EU (EMC), 2011/65/EU, including amendment 2015/863/EU (RoHS); FCC Class B; CAN ICES-003

量子转换效率



特性

Image optimization features:

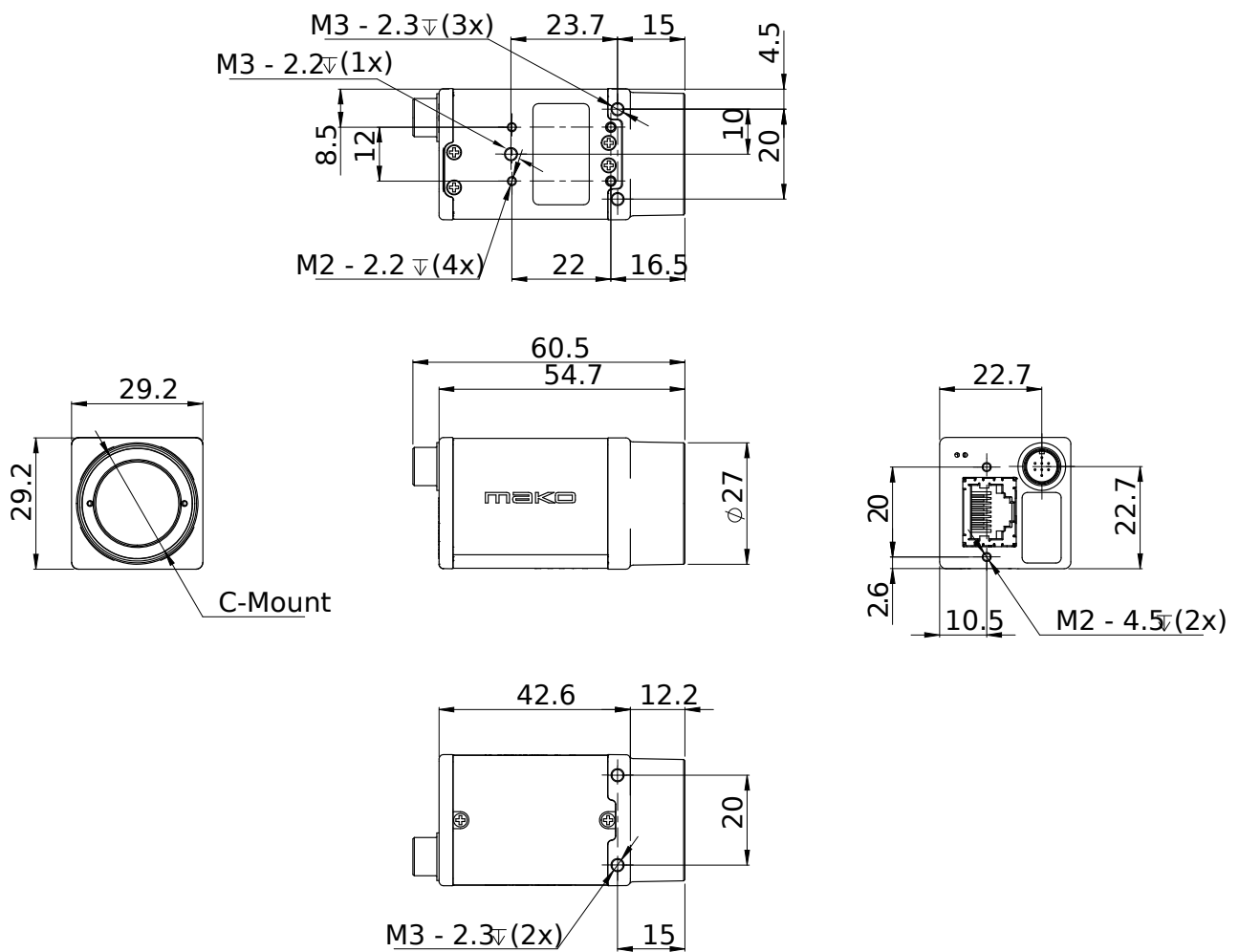
- Auto gain (manual gain control: 0 to 40 dB; 0.1 dB increments)
- Auto exposure (exposure time control varies by pixel format)
- Auto white balance (G-040C only)
- Binning
- Color transformation, hue, saturation (G-040C only)
- Decimation
- Gamma correction
- One look-up table (LUT)
- Region of interest (ROI), separate ROI for auto features

Camera control features:

- Event channel

- Image chunk data
- IEEE1588 精确时间协议
- Storable user sets
- StreamBytesPerSecond (bandwidth control)
- Stream hold
- Sync out modes: Trigger ready, input, exposing, readout, imaging, strobe, GPO
- Temperature monitoring (main board)
- 通过以太网触发 (ToE) 操作命令
- Non-volatile memory 1024 KByte (for selected models only)

外形尺寸



应用场景

Mako G-040 is suitable for a wide range of applications including:

- Robotics
- Quality control
- Inspection, surveillance
- Industrial imaging
- Machine vision
- Logistics