Allied Vision

GigE Vision

Mako G-158

- Power over Ethernet
- IEEE 1588 PTP
- Trigger over Ethernet
- Ultra-compact design

以小见大

超紧凑型千兆网接口相机

Mako G-158 搭载 Sony IMX273 传感器，在 75.2MP 分辨率下速度可达 1.6 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.

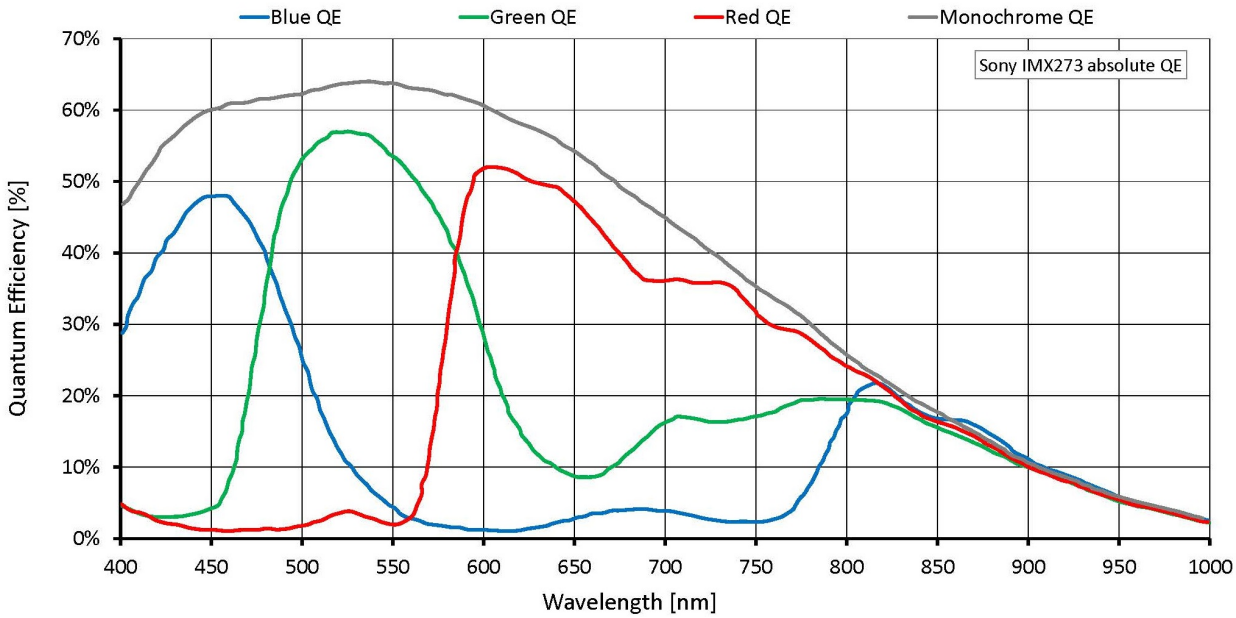
See the Modular Concept for lens mount, housing variants, optical filters, case design, and other modular options. See the Customization and OEM Solutions webpage for additional options.

性能参数

	Mako G-158
接口	IEEE 802.3 1000BASE-T, IEEE 802.3af (PoE)
分辨率	1456 (H) × 1088 (V)
传感器	Sony IMX273
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	3.45 µm × 3.45 µm
Lens mounts (available)	C-Mount, CS-Mount, S-Mount

Mako G-158	
最大满帧帧率	75.2 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	2.2 e^-
饱和电子数	10500 e^-
动态范围	71.5 dB
绝对灵敏度阈值	2.8 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
通用输入输出口 (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; 2.68 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:

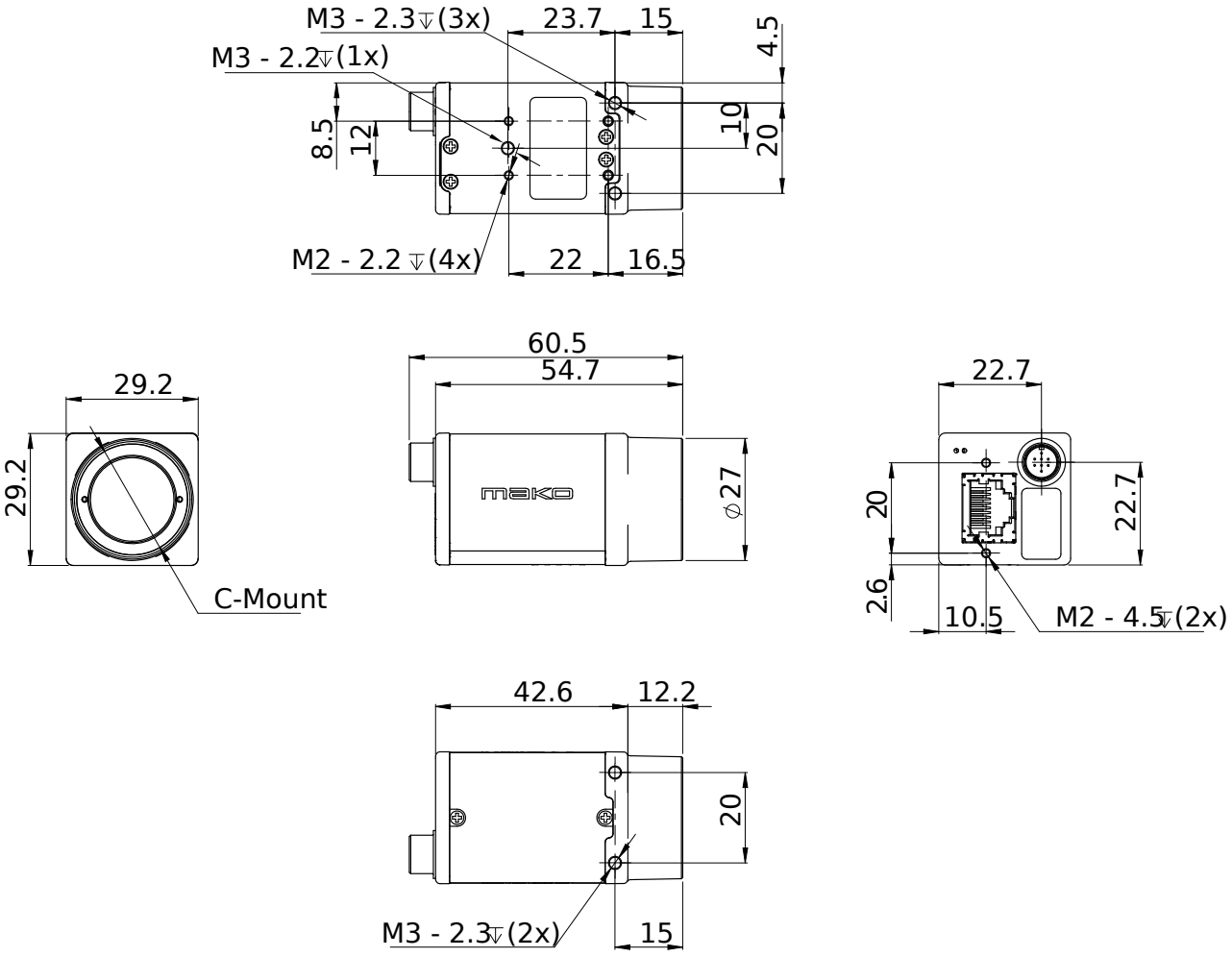
- Auto gain (manual gain control: 0 to 40 dB; 0.1 dB increments)
- Auto exposure (exposure time control varies by pixel format)
- Auto white balance (G-158C only)
- Binning
- Color transformation, hue, saturation (G-158C only)
- Decimation
- Gamma correction
- One look-up table (LUT)
- Region of interest (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-158 is suitable for a wide range of applications including:

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