

Mako G

G-032



- Ultra-compact design
- Affordable
- Power over Ethernet
- High frame rate

基本描述

GigE camera with Sony ICX424 CCD sensor, 102.3 fps

Mako G-032 is a 0.3 megapixel GigE machine vision camera that incorporates the high quality Type 1/3 (6.0 mm diagonal) Sony ICX424 CCD sensor with HAD technology. At full resolution, this camera runs 102.3 frames per second. With a smaller region of interest, higher frame rates are possible. Mako G-032 is offered in both monochrome (G-032B) and color (G-032C) models.

Mako G cameras have the same ultra-compact form factor and the same mounting positions as many analog cameras. All models include Power over Ethernet (PoE), three opto-isolated outputs, and a 64 MByte image buffer. The image quality profits from the precisely aligned sensor. By default monochrome models ship with no optical filter and color models ship with IRC Hoya C-5000 IR cut filter.

Options:

- Various optical filter and lens mounts options

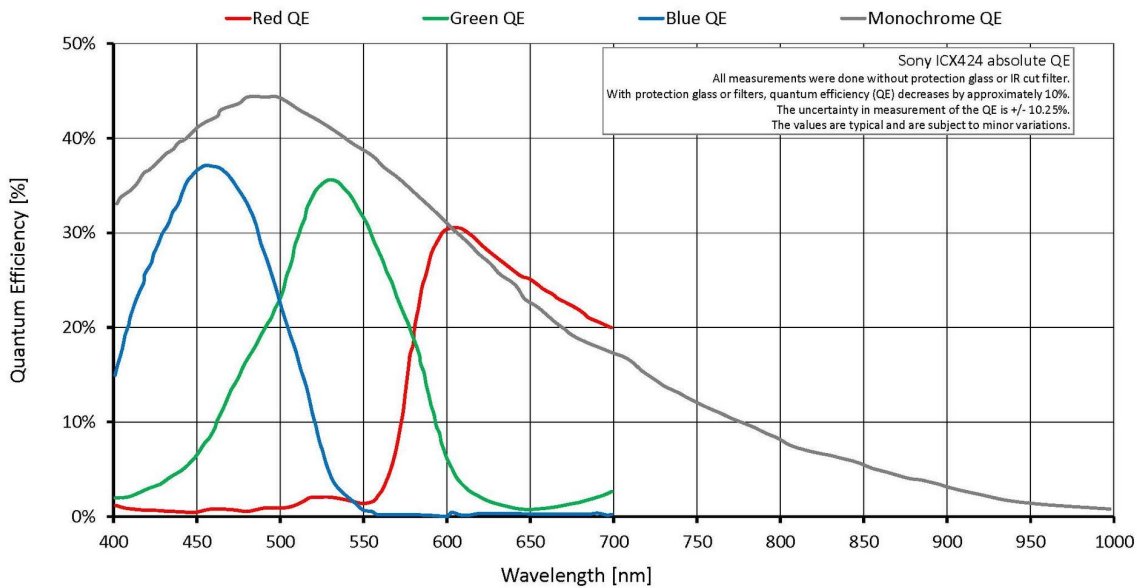
See the [Modular Concept](#) for lens mount, optical filter, and housing design options.
See the [Customization and OEM Solutions](#) page for additional options.

性能参数

| | |
|--------|---|
| Mako G | G-032 |
| 接口 | IEEE 802.3 1000BASE-T, IEEE 802.3af (PoE) |
| 分辨率 | 658 (H) × 492 (V) |



| | |
|-----------------------------------|---|
| Mako G | G-032 |
| 传感器 | Sony ICX424 |
| 传感器类型 | CCD Progressive |
| 传感器尺寸 | Type 1/3 |
| 像元尺寸 | 7.4 μm \times 7.4 μm |
| 标准镜头接口 | C-Mount |
| 最大满帧帧率 | 102.3 fps |
| ADC | 14 bit |
| 缓存 (RAM) | 64 MByte |
| 非易失性内存 (Flash) | 1024 KByte (for selected models only) |
| 输出 | |
| Bit位数 | 8/12 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 $^{\circ}\text{C}$ to +45 $^{\circ}\text{C}$ housing temperature |
| 电源要求 (DC) | 12 to 24 VDC; PoE |
| 功耗 | 2.4 W at 12 VDC; 2.8 W PoE |
| 重量 | 80 g |
| 尺寸(L \times W \times H in mm) | 60.5 \times 29.2 \times 29.2 (incl. connectors) |
| 符合规范 | CE: 2014/30/EU (EMC), 2011/65/EU, including amendment 2015/863/EU (RoHS); FCC Class B; CAN ICES-003 |



特性

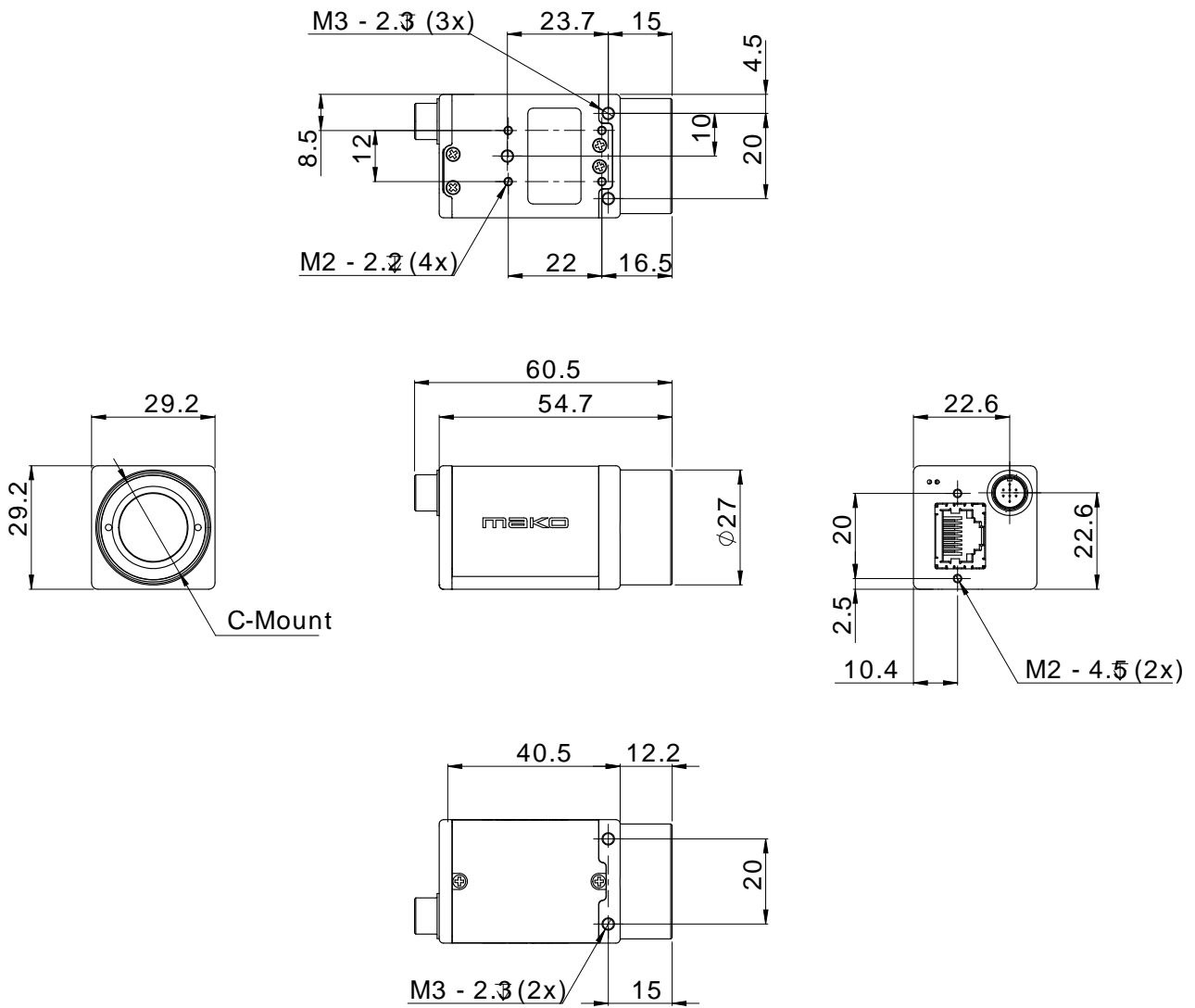
Image optimization features:

- Auto gain (manual gain control: 0 to 30 dB; 1 dB increments)
- Auto exposure (manual exposure control: 10 μ s to 93 s; 1 μ s increments)
- Auto white balance (G-032C only)
- Binning
- Color correction, hue, saturation (G-032C only)
- Gamma correction
- One look-up table (LUT)
- Region of interest (ROI), separate ROI for auto features

Camera control features:

- Event channel
- Image chunk data
- Storable user sets
- StreamBytesPerSecond (easy bandwidth control)
- Stream hold
- Sync out modes: Trigger ready, input, exposing, readout, imaging, strobe, GPO
- Temperature monitoring (main board only)
- Non-volatile memory 1024 KByte (for selected models only)

外形尺寸





应用场景

Mako G-032 is an inexpensive industrial GigE camera with a compact form factor. It is suitable for all typical machine vision applications:

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