

# Mako G

## G-507



- Sony IMX264 CMOS sensor
- Power over Ethernet
- 5.1 megapixel resolution
- Ultra-compact design

## Description

GigE Vision camera with Sony IMX264 CMOS sensor, Pregius global shutter

Mako G-507B/G-507C is an industrial GigE camera with the Sony IMX264 CMOS sensor. Mako G cameras have an 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.

Options:

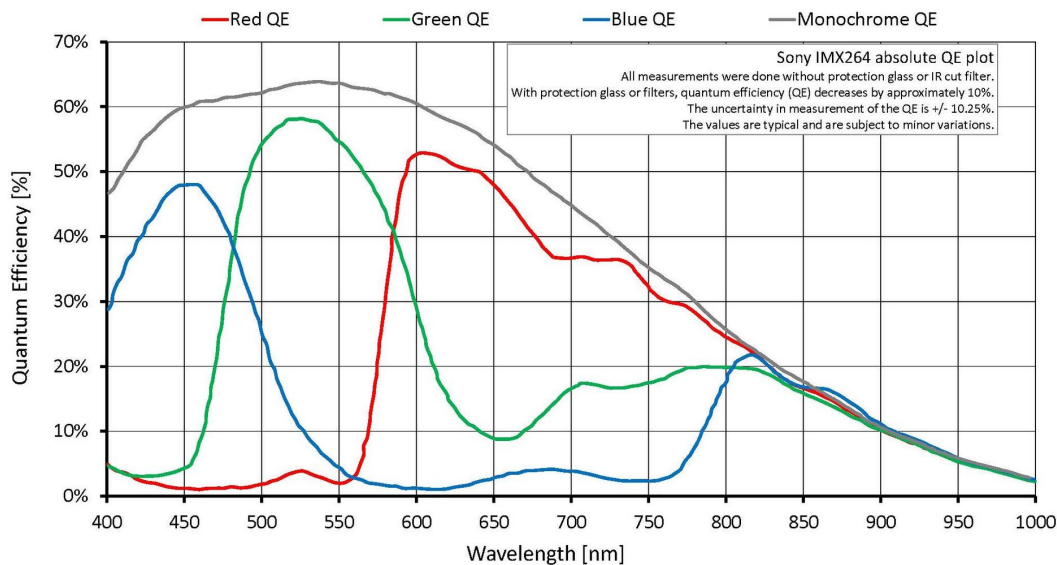
- Various optical filter and lens mount options
- White medical housing

See the [Modular Concept](#) for lens mount, optical filter, and case design options.

## Specifications

| Mako G                            | G-507                                     |
|-----------------------------------|---|
| Interface                         | IEEE 802.3 1000BASE-T, IEEE 802.3af (PoE) |
| Resolution                        | 2464 (H) × 2056 (V)                       |
| Sensor                            | Sony IMX264                               |
| Sensor type                       | CMOS                                      |
| Cell size                         | 3.45 μm x 3.45 μm                         |
| Lens mount                        | C-Mount                                   |
| Max frame rate at full resolution | 23.7 fps                                  |
| ADC                               | 12 bit                                    |
| Image buffer (RAM)                | 64 MByte                                  |
| <b>Output</b>                     |   |

| Mako G                                 | G-507                                    |
|--|--|
| Bit depth                              | 12 bit                                   |
| Mono modes                             | Mono8, Mono12, Mono12Packed              |
| Color modes YUV                        | YUV411Packed, YUV422Packed, YUV444Packed |
| Color modes RGB                        | RGB8Packed, BGR8Packed                   |
| Raw modes                              | BayerRG8, BayerRG12, BayerRG12Packed     |
| General purpose inputs/outputs (GPIOs) |  |
| Opto-isolated I/Os                     | 1 input, 3 outputs                       |
| Operating conditions/dimensions        |  |
| Operating temperature                  | +5 °C to +45 °C housing temperature      |
| Power requirements (DC)                | 12 to 24 VDC; PoE                        |
| Power consumption (@12 V)              | 2.4 W @ 12 VDC; 2.8 W PoE                |
| Mass                                   | 80 g                                     |
| Body dimensions (L × W × H in mm)      | 60.5 × 29 × 29 (including connectors)    |
| Regulations                            | CE, RoHS, REACH, WEEE, FCC, ICES         |



## Features

Image optimization features:

- Auto gain (manual gain control: 0 to 40 dB; 0.1 dB increments)
- Auto exposure (52  $\mu$ s to 85.9 s; 19.5  $\mu$ s increments)
- Auto white balance (color models only)
- Binning



- Color transformation, hue, saturation (color models only)
- Decimation
- Gamma correction
- Look-up table (LUT) (1)
- 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)

## Technical drawing





## Applications

Mako G-507B/G-507C is suitable for a wide range of applications including:

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