



## Specifications

<b>Mako G</b>	<b>G-508B POL</b>
Interface	IEEE 802.3 1000BASE-T, IEEE 802.3af (PoE)
Resolution	2464 (H) × 2056 (V)
Sensor	Sony IMX250MZR
Sensor type	CMOS
Shutter mode	Global shutter
Sensor size	Type 2/3
Pixel size	3.45 μm × 3.45 μm
Lens mounts (available)	C-Mount, CS-Mount, S-Mount
Max. frame rate at full resolution	23.7 fps
ADC	12 Bit
Image buffer (RAM)	64 MByte
<b>Imaging performance</b>	
Imaging performance data is based on the evaluation methods in the EMVA 1288 Release 3.1 standard for characterization of image sensors and cameras. Measurements are typical values for monochrome models measured at full resolution without optical filter and unpolarized light. Contact Sales or AE for more information.	
Quantum efficiency at 529 nm	25 %
Temporal dark noise	2.1 e <sup>-</sup>
Saturation capacity	10200 e <sup>-</sup>
Dynamic range	71.4 dB
Absolute sensitivity threshold	2.8 e <sup>-</sup>
<b>Output</b>	
Bit depth	12 Bit
Monochrome pixel formats	Mono8, Mono12, Mono12Packed
<b>General purpose inputs/outputs (GPIOs)</b>	
Opto-isolated I/Os	1 input, 3 outputs
<b>Operating conditions/dimensions</b>	
Operating temperature	+5 °C to +45 °C housing temperature
Power requirements (DC)	12 to 24 VDC AUX or 802.3at Type 1 PoE
Power consumption	2.4 W at 12 VDC; 2.4 W PoE
Mass	80 g (with C-Mount)
Body dimensions (L × W × H in mm)	60.5 × 29.2 × 29.2 (including connectors)

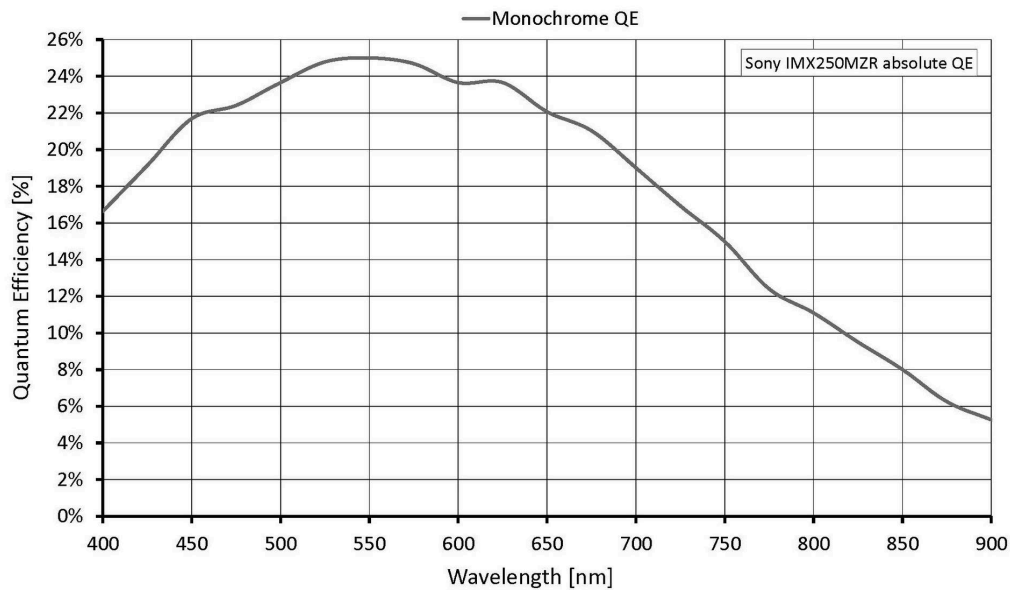
## Mako G

Regulations

## G-508B POL

CE: 2014/30/EU (EMC), 2011/65/EU, including amendment 2015/863/EU (RoHS)); FCC Class B; CAN ICES-003

## Quantum efficiency



## Features

### 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)
- Binning
- Decimation
- Gamma correction
- One look-up table
- Region of interest, separate region for auto features

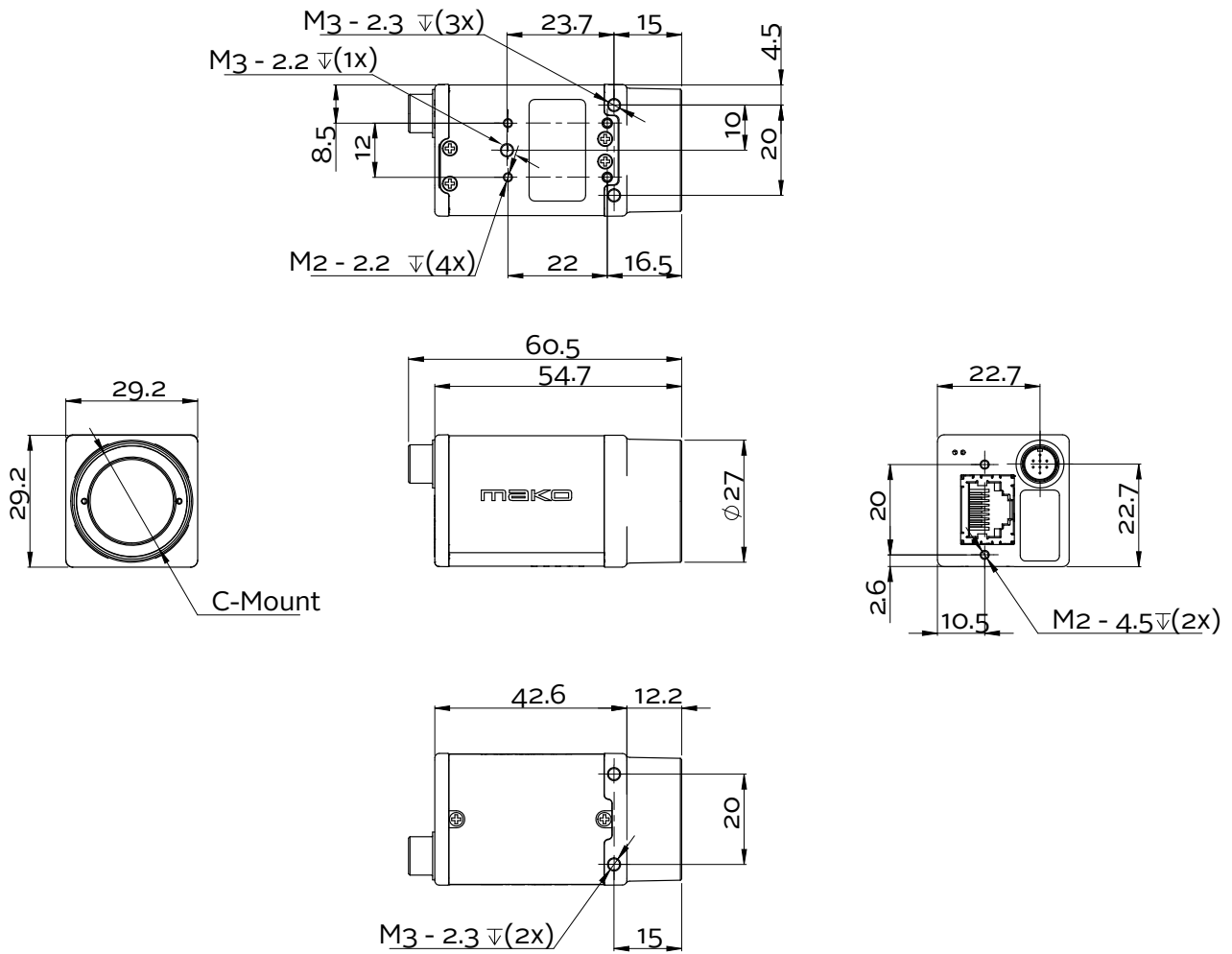
### Camera control features:

- Event channel
- Image chunk data
- IEEE 1588 Precision Time Protocol
- Storable user sets



- StreamBytesPerSecond (bandwidth control)
- Stream hold
- Sync out modes: Trigger ready, input, exposing, readout, imaging, strobe, GPO
- Temperature monitoring (main board)
- Trigger over Ethernet Action Commands

## Technical drawing





## Applications

Mako G-508B POL is suitable for a wide range of inspection tasks including:

- Surface inspection (for example damage, flatness, scratches)
- Low-contrast imaging (for example carbon fibre, tires, welding spots)
- Material stress detection
- Reflection reduced imaging