



Mako

Mako G-508B POL

Mako G-508B POL polarizer camera is equipped with a Polarsens 5.1 MP IMX250MZR CMOS sensor that incorporates the latest four-directional polarization filter technology from Sony. The on-chip nanowire polarizing layer supports four orientations (0°, 45°, 90°, and 135°).

General

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|-----------------|-----------------|
| Model: | Mako G-508B POL |
| Product series: | Mako |
| Status: | Available |

Sensor

| | |
|---------------------------------|---|
| Sensor type: | Area scan |
| Chroma: | Mono |
| Spectrum: | Visible |
| Resolution: | 2,464 × 2,056 (5.10 MP) |
| Sensor model: | Sony IMX250 Polarizer |
| Sensor architecture (material): | CMOS |
| Shutter type(s): | Global Shutter |
| Sensor size: | 12.75 mm \varnothing (Type 2/3) |
| Pixel size: | 3.45 μm × 3.45 μm |

Pixel formats

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|---------------------------|-----------------------------|
| Sensor bit depth: | 12-bit |
| Monochrome pixel formats: | Mono8, Mono12, Mono12Packed |

Imaging performance

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|------------------------------|------|
| Quantum efficiency @ 529 nm: | 25 % |
|------------------------------|------|

Timing and gain

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|------------------|--------|
| Max. frame rate: | 23 fps |
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I/Os and power

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|----------------------|--|
| Opto-isolated lines: | 1 input, 3 outputs |
| Power supply: | 10.8 to 26.4 VDC AUX or 802.3af Type 1 PoE |
| Power consumption: | 2.4 W at 12 VDC; 2.4 W PoE |

Operating conditions

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|----------------------------------|-----------------------------------|
| Operating temperature (housing): | 5 °C to 45 °C housing temperature |
|----------------------------------|-----------------------------------|

Mechanical properties

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|------------------------------------|--------------|
| Body dimensions (L x W x H in mm): | 61 × 29 × 29 |
| Weight: | 80 g |

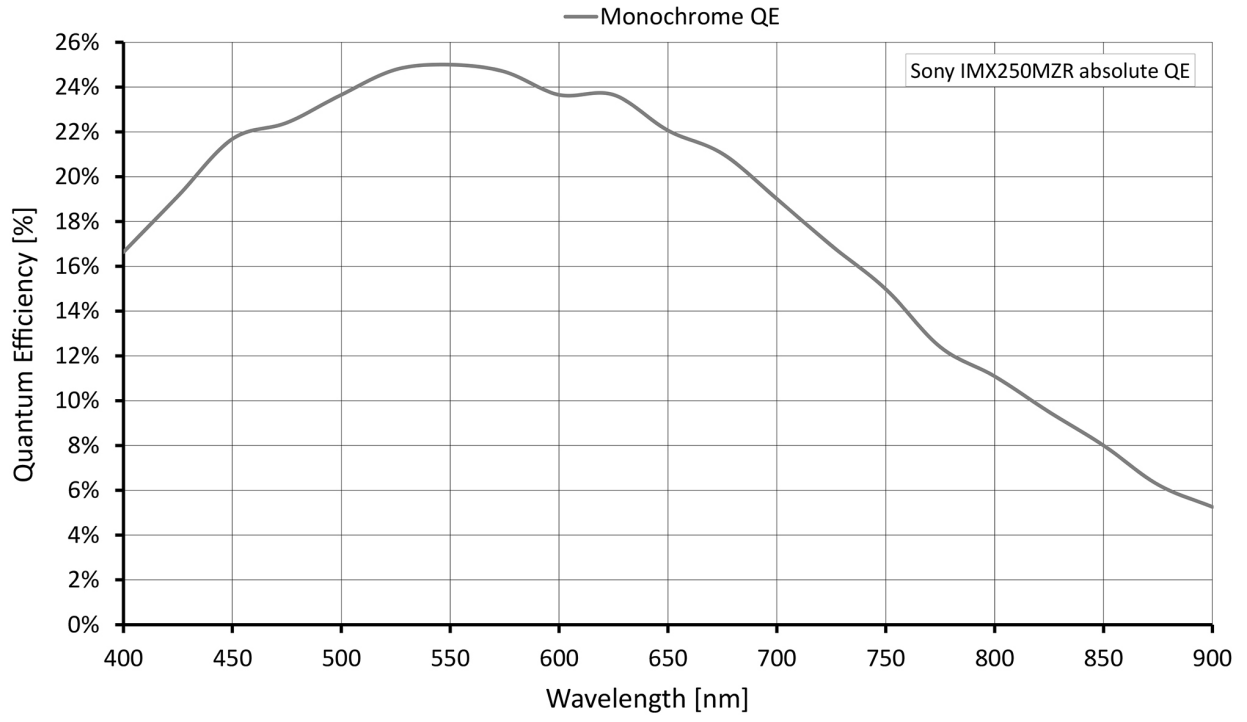
On-board memory and FPGA

| | |
|------------------------------|------------|
| Image buffer (RAM): | 64 MByte |
| Non-volatile memory (Flash): | 1024 KByte |

Interfaces

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|--------------------|---|
| Digital interface: | IEEE 802.3 1000BASE-T, IEEE 802.3af (PoE) |
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Quantum Efficiency



*Note: The quantum efficiency depends on the illumination's degree of polarization.

