

Mako G-419 is a 4.2 megapixel GigE machine vision camera that incorporates the high quality Type 1 (16.0 mm diagonal) CMOSIS/ams CMV4000 CMOS sensor. At full resolution, this camera runs 26.3 frames per second. With a smaller region of interest, higher frame rates are possible.

General

Model:	Mako G-419
Product series:	Mako
Status:	Available

Sensor

Sensor type:	Area scan
Chroma:	Mono or Color
Spectrum:	Visible
Resolution:	2,048 × 2,048 (4.20 MP)
Sensor model:	CMOSIS/ams CMV4000
Sensor architecture (material):	CMOS
Shutter type(s):	Global Shutter
Sensor size:	16.3 mm ø (Type 1)
Pixel size:	5.50 µm × 5.50 µm

Pixel formats

Sensor bit depth:	8-bit or 12-bit
Monochrome pixel formats:	Mono8, Mono12, Mono12Packed
YUV pixel formats:	YUV411Packed, YUV422Packed, YUV444Packed
RGB pixel formats:	RGB8Packed, BGR8Packed
Bayer pixel formats:	BayerGB8, BayerGB12, BayerGB12Packed

Imaging performance

Quantum efficiency @ 529 nm:	74 %
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Timing and gain

Max. frame rate:	26
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I/Os and power

Opto-isolated lines:	1 input, 3 outputs
Power supply:	10.8 to 26.4 VDC AUX or 802.3af Type 1 PoE
Power consumption:	2.3 W at 12 VDC; 2.7 W PoE

Operating conditions

Operating temperature (housing):	5 °C to 45 °C housing temperature
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Mechanical properties

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

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



