Allied Vision

Mako

Mako G-223

Mako G-223 is a 2.2 megapixel GigE machine vision camera that incorporates the high quality Type 2/3 (12.7 mm diagonal) CMOSIS/ams CMV2000 CMOS sensor. At full resolution, this camera runs 49.5 frames per second. With a smaller region of interest, higher frame rates are possible.

General

Model:	Mako G-223
Product series:	Mako
Status:	Available

Sensor

Sensor type:	Area scan
Chroma:	Mono or Color
Spectrum:	Visible
Resolution:	2,048 × 1,088 (2.20 MP)
Sensor model:	CMOSIS/ams CMV2000
Sensor architecture (material):	CMOS
Shutter type(s):	Global Shutter
Sensor size:	12.75 mm ø (Type 2/3)
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:	77 %

Timing and gain

Max. frame rate:	49 fps

I/Os and power

Opto-isolated lines:	1 input, 3 outputs
Power supply:	10.8 to 26.4 VDC AUX or 802.3at Type 1 PoE
Power consumption:	2.4 W at 12 VDC; 2.8 W PoE

Operating conditions

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

Mechanical properties

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

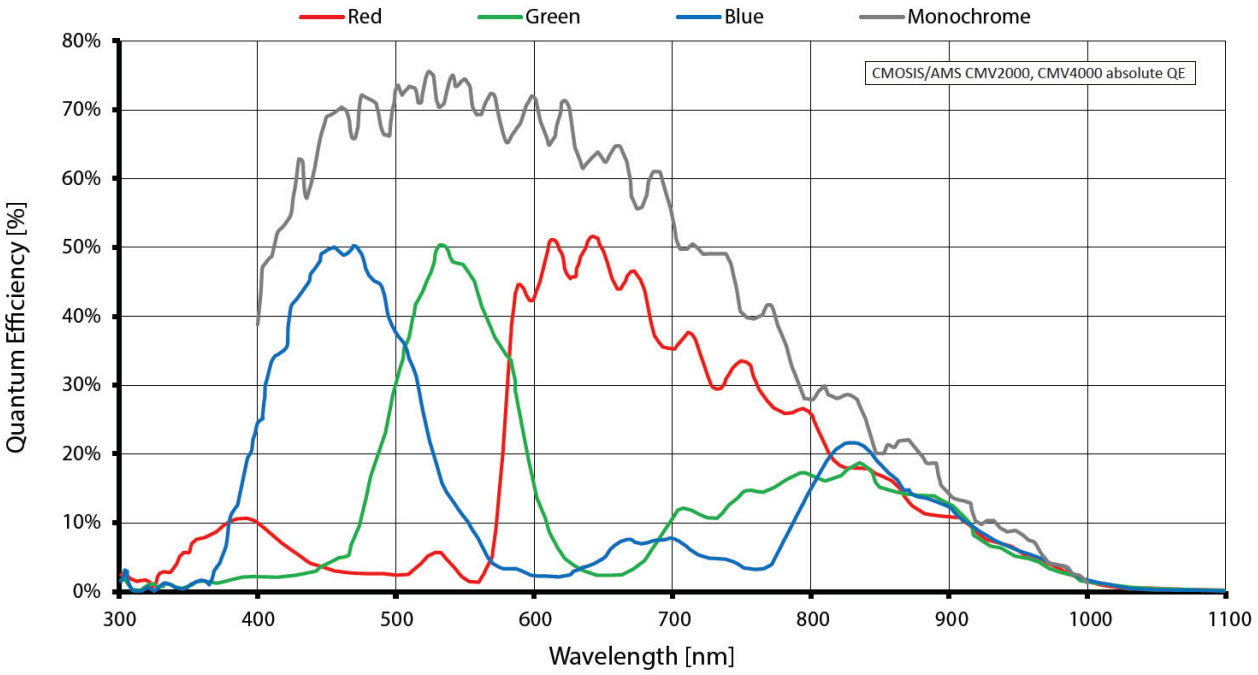
On-board memory and FPGA

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

Interfaces

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

Quantum Efficiency



Technical Drawing