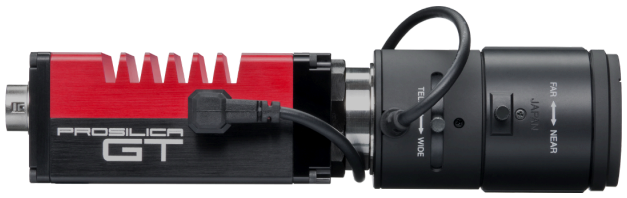
Allied Vision



Prosilica GT

Prosilica GT 2050

Prosilica GT2050 is a 4.2 megapixel camera with a GigE Vision compliant Gigabit Ethernet port and Hirose I/O port. Prosilica GT2050 is offered in both monochrome and color models. This camera incorporates the high quality CMOSIS/ams CMV4000 sensor.

General

Model	Prosilica GT 2050
Product series	Prosilica GT
Status	Available

Sensor

Sensor type	Area scan
Chroma	Color, Mono
Spectrum	Visible
Resolution	2,048 × 2,048 (4.20 MP)
Sensor model	CMOSIS/ams CMV4000
Sensor architecture (material)	cmos
Shutter type(s)	Global shutter (GS)
Sensor size	11.26 × 11.26 mm (16 mm, Type 1)
Pixel size	5.50 µm × 5.50 µm

Pixel formats

Sensor bit depth	12-bit
YUV pixel formats	YUV411Packed, YUV422Packed, YUV444Packed
RGB pixel formats	BGR8Packed, BGRA8Packed, RGB8Packed, RGBA8Packed
Bayer pixel formats	BayerGB12, BayerGB12Packed, BayerGB8

Imaging performance

Quantum efficiency @ 529 nm	79 %

Timing and gain

Max. frame rate	28 fps
Exposure time	50 µs to 126 s
Gain	0.0 dB to 26.0 dB

I/Os and power

Non-isolated lines	1 input, 2 outputs
Specific non-isolated lines	1
Opto-isolated lines	1 input, 2 outputs
Power supply	7 to 25 VDC AUX or 802.3at Type 1 PoE
Power consumption	3.5 W at 12 VDC; 4.3 W PoE

Operating conditions

Operating temperature (housing)	-20 °C to 65 °C (ambient (without condensation))

Mechanical properties

Body dimensions (L x W x H in mm)	86 × 53 × 33
Weight	210 g

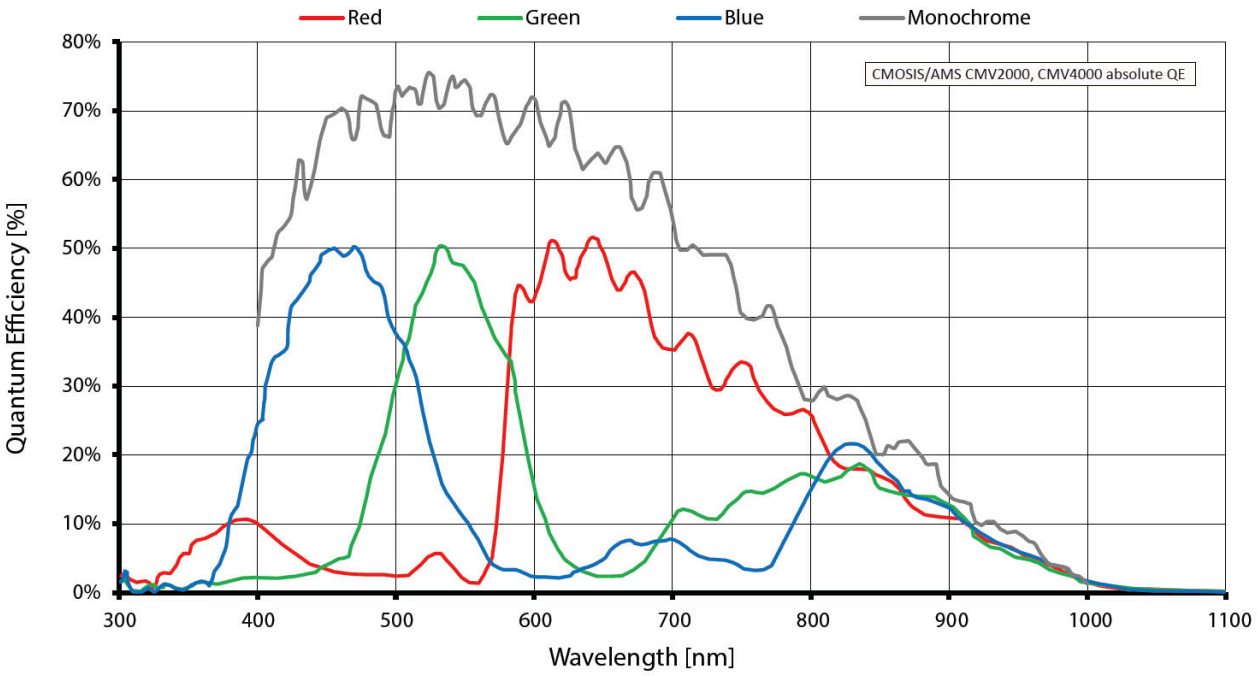
On-board memory and FPGA

Image buffer (RAM)	128 MByte
Non-volatile memory (Flash)	1024 KByte

Interfaces

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

Quantum Efficiency



Technical Drawing

