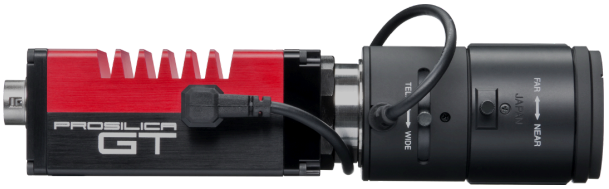
Allied Vision

Prosilica GT

Prosilica GT 2050NIR



Prosilica GT2050NIR is a 4.2 Megapixel camera with a GigE Vision compliant Gigabit Ethernet port and Hirose I/O port. This camera incorporates a NIR-optimized variant of the high-quality CMOSIS/ams CMV4000 CMOS sensor. At 900 nm this sensor offers double the quantum efficiency, an increase from 8% to 16% absolute.

General

Model:	Prosilica GT 2050NIR
Product series:	Prosilica GT
Status:	Available

Sensor

Sensor type:	Area scan
Chroma:	Mono
Spectrum:	Visible-NIR
Resolution:	2,048 × 2,048 (4.20 MP)
Sensor model:	CMOSIS/ams CMV4000 NIR
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

Imaging performance

Quantum efficiency @ 529 nm:	79 %
Quantum efficiency @ 850 nm:	42 %

Timing and gain

Max. frame rate:	28 fps

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

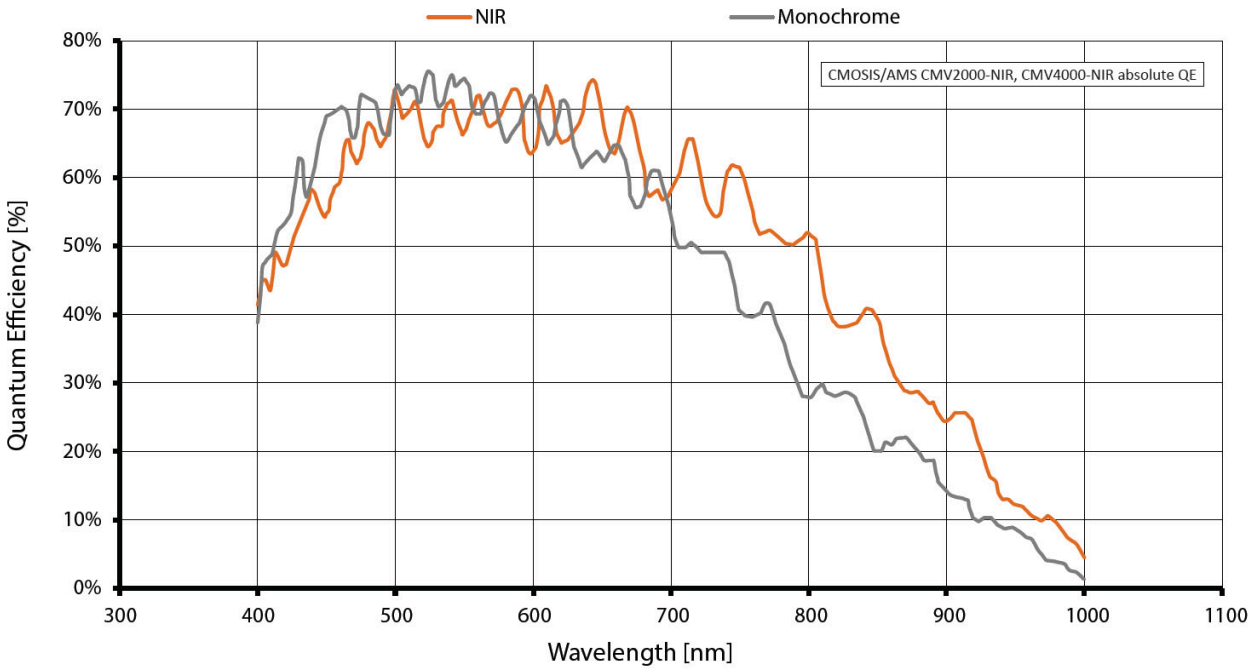
On-board memory and FPGA

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