![Allied Vision logo]

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:	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, RGBA8Packed, BGRA8Packed
Bayer pixel formats:	BayerGB8, BayerGB12, BayerGB12Packed

Imaging performance

Quantum efficiency @ 529 nm:	79 %

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

Quantum Efficiency chart. X-axis: Wavelength [nm] from 300 to 1100. Y-axis: Quantum Efficiency [%] from 0% to 80%. Legend: Red, Green, Blue, Monochrome. Chart label: CMOSIS/AMS CMV2000, CMV4000 absolute QE

26

26

M3x4 (4x)

2.8   65.2   2.5

20   29.9

11.4

M2x3 (2x)

⌀14

20.6

19.1

Made in Canada

MODEL: GT2450
S/N: 02-XXXXX-XXXXX
RoHS

⌀26.7

70.5   5.1

31.6   Adjustable
C-Mount

16 26   33

34

38

M3x4 (8x)

53.3

6.3

26

26

M3x4 (4x)

2.8   65.2

11.7 Nominal
Precise dimension
is sensor dependent