

COE-053-M-POE-070-IR-C | DATASHEET

Area scan camera PYTHON 5000, CMOS, Global shutter, 2592 x 2048, 5.3 MP, 4.8 μm pix, 1", Mono, 22 fps, 1 GigE, POE, C mount, AR

KEY ADVANTAGES

High quality sensors

New SONY Pregius CMOS Global shutter sensors provide high quality images.

GigEVision® protocol & GenICam® standard Standard vision SDK platform for easy integration in existing software.

Full GenlCam® compliant: easy to integrate

GenlCam® compliant SDK package provides more flexibility to Vision Systems.

GigE PoE compliance

With the COE-G cameras, you do not need separate cables to transfer the information to the computer and provide power to the camera.

120 MB RAM and Frame Rate up to 300fps

High frame rate ideal for high speed applications. The internal memory up to 120MB guarantees no image loss and enables useful features like Record / Playback and sequence recordings.

The COE-G series includes Gigabit Ethernet cameras equipped with the latest sensors, ranging from high speed VGA to the latest 12MP SONY Pregius sensor, which deliver GigE connectivity with high frame rate.



SPECIFICATIONS

Sensor Specification

	5.3
	2592 x 2048
	1"
(mm)	15.9
(µm)	4.8
	PYTHON 5000
	CMOS
	Global
	Mono
	RJ45
	1 GigE
	6-pin Hirose
	1x opto-isolated input 1x opto-isolated output 1x bi-directional non-isolated
	no
	no
(V)	12, PoE
(W)	3.3
	(μm)

Camera Specification

Filter		AR	
Framerate	(fps)	22	
Exposure time		65 µs - 10 s	
Dynamic range	(dB)	57.5	
Gain range	(dB)	0-15	
SNR	(dB)	40	
Image buffer	(MB)	128	
Pixel formats		Mono 8/10/ 10Packed/ 12/12Packed	
Chunk data		yes	
User sets		3	
Timers/Counters		0/1	
Synchronization		Free run, software trigger, hardware trigger	

¹ Measured at 12 VDC

All product specifications and data are subject to change without notice to improve reliability, functionality, design or other. Photos and pictures are for illustration purposes only. Data are reported by design, actual lens performance may vary due to manufacturing tolerances.



Compliance

Standards		GigE Vision, GenlCam		
Client software		OECS or other GigEVision software		
Operating syste	ems	32/64-bit Windows XP/7/10		
Warranty	(years)	1		

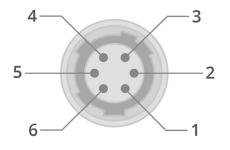
Mechanical Specifications

Mount		C
Dimensions	(mm)	29 x 29 x 42
Clamping system		3x M3 and 4x M2 threaded holes (on one side)
Mass	(g)	68

Environment

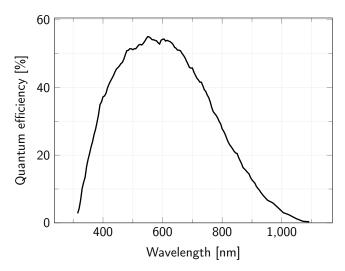
Operating temperature	(°C)	0-50
Storage temperature	(°C)	-30-+70
Operating relative humidity	(%)	20-80, non condensing
IP rating		IP30

HIROSE PINOUT



I/O Description Pin Signal 1 12V DC 12V Input 2 Opt-Iso In Input Opto-isolated input 3 GPIO I/O Can be configured as input or output 4 Opt-Iso Out Output Opto-isolated output 5 I/O Ground Input Opto-isolated I/O grounding 6 GND Input Power and GPIO grounding

SENSOR QUANTUM EFFICIENCY



RECOMMENDED ACCESSORIES

 $\mathsf{Opto}\text{-}\mathsf{Engineering}^{\$}$ suggests the following accessories to power the camera:

- **CBETH003**, Ethernet cable, CAT6, industrial level, high flexible cable with screw, 5 m
- **COE-6P-OPEN1-030-01**, HIROSE 6-pin/Open end cable, 3 meters
- **RT-POE15M-1AFE-R**, 15.4W Single Port Power-over-Ethernet IEEE802.3af Power Injector

COMPATIBLE PRODUCTS

Full list of compatible products available here.



A wide selection of innovative machine vision components.

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