

COE-016-M-POE-021-IR-C | DATASHEET

Area scan camera IMX273, CMOS, Global shutter, 1440 x 1080, 1.6 MP, 3.45 μm pix, 1/2.9", Mono, 78.2 fps, 1 GigE, POE, C mount, AR







KEY ADVANTAGES

High quality sensors

New SONY Pregius CMOS Global shutter sensors provide high quality im-

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 Sys-

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

Megapixel		1.6
Resolution		1440 x 1080
Sensor format		1/2.9"
Sensor diagonal	(mm)	6.2
Pixel size	(µm)	3.45
Sensor model		IMX273
Sensor type		CMOS
Shutter		Global
Chroma		Mono

Connectivity

Connectivity		
Data connector		RJ45
Data interface		1 GigE
I/O connector		6-pin Hirose
I/O interface		1x opto-isolated input 1x opto-isolated output 1x bi-directional non-isolated
Serial interface		no
Enconder interface		no
Power supply	(V)	9-26, PoE
Max power consumption ¹	(W)	3

Camera Specification

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Filter		AR
Framerate	(fps)	78.2
Exposure time		1 μs - 10 s
Dynamic range	(dB)	71.4
Gain range	(dB)	0-20
SNR	(dB)	41
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



Compliance

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

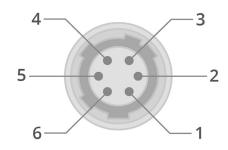
Environment

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

Mechanical Specifications

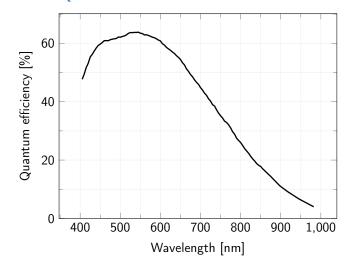
Mount		С
Dimensions	(mm)	29 x 29 x 42
Clamping system		3x M3 and 4x M2 threaded holes (on one side)
Mass	(g)	68

HIROSE PINOUT



Pin	Signal	1/0	Description
1	12V	Input	DC 12V
2	Opt-Iso In	Input	Opto-isolated input
3	GPIO	1/0	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

Opto-Engineering $^{\text{@}}$ 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.