

ITA04-GC-10C-IP | DATASHEET

Area scan camera 0.4MP, Sony IMX287, CMOS Global shutter, 1/2.9", Color, 1 GigE, POE, C mount





GEN**<i>**CAM





KEY ADVANTAGES

IP67-rated housing Protection against water and dust.

MADE IN ITALY Cameras designed and manufactured in Italy by Opto Engineering.

TOP QUALITY SERVICE 5 years warranty.

Ruggedized

-25° C to 65° operating temperature. Stainless steel mount, milled aluminum body. Tested for shock and vibration resistance.

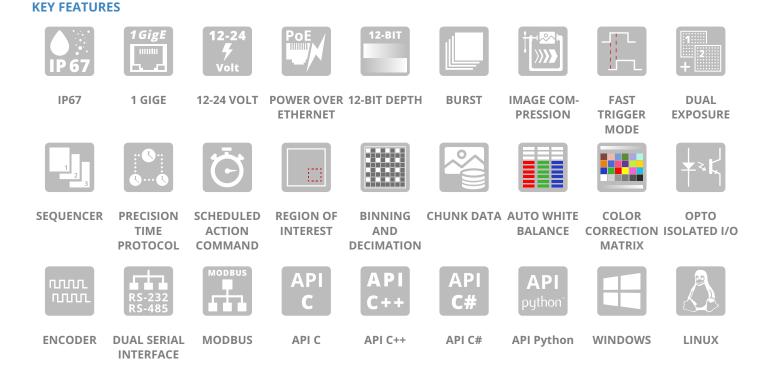
MAXIMUM CONNECTIVITY Isolated PoE supply, broad range of I/Os, serial communication.

HIGH PROCESSING CAPABILITY Large on-board image buffer, large FPGA.

EXCELLENT QUALITY/PRICE RATIO



ITALA-G.IP series is a series of GigE vision PoE area scan cameras featuring an IP67-rated housing. By adding sealed lens tubes from IPT series and IP67 cables, ITALA G.IP cameras ensure protection against solid particles like dust, dirt, and sand and water.



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.

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SPECIFICATIONS

Sensor Specification			Camera Specificat	ion	
Megapixel		0.4	Filter		IR cut
Resolution		728 x 544	Frame rate ¹	(fps)	296.5
Sensor format		1/2.9"	Frame rate burst	(fps)	435
Sensor diagonal	(mm) 6.2	Exposure time		1 µs - 10 s
Pixel size	(µm)	6.9	ADC resolution	(bit)	10/12
Sensor model		IMX287	Dynamic range	(dB)	67.0
Sensor type		CMOS	Gain range	(dB)	0-48
Shutter		Global	SNR	(dB)	40.1
Chroma		Color	Image buffer	(MB)	384
Connectivity Data connector		RJ45	Image processing		Binning, decimation, ROI, gamma, black level, LUT, defective pixel correction, white balance, color corection matrix
Data interface		1 GigE			Mono 8/10/12, RGB8, Bayer GR
I/O connector		12-pin Hirose	Pixel formats		8/10p/10Packed/12p/12Packed,
1/O interface		2x opto-isolated input			YUV 422Packed
I/O interface		4x opto-isolated output	Chunk data		yes
Serial interface		RS232, RS485	User sets		3
Liquid lens controller		no	Timers/Counters		2/4
Enconder interface		yes, incremental			Free run, software trigger,
Power supply	(V)	12-24, PoE (IEEE 802.3af class 2)	Synchronization		hardware trigger, PTP (IEEE
Max power consumption ²	(W)	3.6			1588)
Compliance			Environment		
Standards		GigE Vision 2.2, GenICam, GenTL	Operating tempera	ture ³	(°C) -25 - +65

compliance		
Standards		GigE Vision 2.2, GenICam, GenTL
Client software		ITALA View or other GigE Vision 2.x software
Operating systems		64-bit Windows 10/11
Operating systems		Ubuntu 18.04/20.04/22.04
		EN 60068-2-27
Shock and vibration		EN 60068-2-6
		EN 60068-2-64
Warranty	(years)	5

_	Operating temperature ³	(°C)	-25 - +65
	Storage temperature ⁴	(°C)	-10 - +60
_	Operating relative humidity	(%)	20-80, non condensing
	IP rating		IP67

¹ Color-model's fps are calculated using BayerRG8 pixel format

 ² Measured with 24V power supply
³ Case temperature, measured on the front part of the camera body ⁴ Ambient temperature

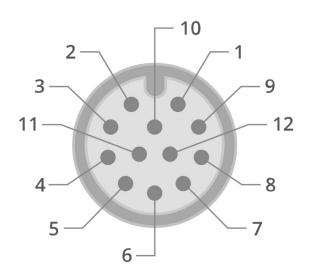
Mechanical Specifications

· · ·		
Mount		C
Dimensions	(mm)	54 x 54 x 51.3
Clamping system		16x M3 threaded holes (on all sides)
Mass	(g)	200

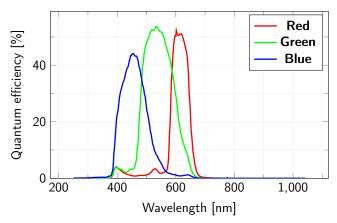
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M12 PINOUT



SENSOR QUANTUM EFFICIENCY



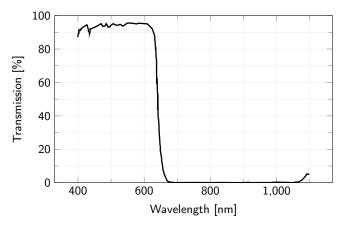
RECOMMENDED ACCESSORIES



Opto-Engineering® offers sealed lens tubes of different diameters to be used with varying lens sizes (IPT-Series) and sealed M12 cables (CB series) to complete your vision system.

Pin	Signal
1	GND
2	+VIN
3	Opto OUT 3
4	Opto IN 0
5	Opto OUT 2
6	Opto OUT 0
7	Opto REF GND
8	RS232 RX
9	RS232 TX
10	Opto REF V+
11	Opto IN 1
12	Opto OUT 1

FILTERS TRANSMISSION



COMPATIBLE PRODUCTS

Full list of compatible products available here.



A wide selection of innovative machine vision components.

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