

ITA04-GM-10C-IP | DATASHEET

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











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.

KEY FEATURES



















IP67

1 GIGE

12-24 VOLT POWER OVER 12-BIT DEPTH **ETHERNET**

BURST

IMAGE COM-PRESSION

FAST TRIGGER MODE

DUAL EXPOSURE



















SEQUENCER

PRECISION TIME **PROTOCOL**

SCHEDULED ACTION

COMMAND

REGION OF INTEREST

BINNING AND **DECIMATION**

CHUNK DATA OPTO ISOLATED I/O

ENCODER

DUAL SERIAL INTERFACE















MODBUS

API C

API C++

API C#

API Python

WINDOWS

LINUX



SPECIFICATIONS

Cor		Cno	cific	ation
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Megapixel		0.4		
Resolution		728 x 544		
Sensor format		1/2.9"		
Sensor diagonal	(mm)	6.2		
Pixel size	(µm)	6.9		
Sensor model		IMX287		
Sensor type		CMOS		
Shutter		Global		
Chroma		Mono		

Connectivity

Data connector	M12 X-Coded Female IP67		
Data interface		1 GigE	
I/O connector		M12 A-Coded Male IP67	
I/O interface		2x opto-isolated input 4x opto-isolated output	
Serial interface		RS232, RS485	
Liquid lens controller		no	
Enconder interface		yes, incremental	
Power supply	(V)	12-24, PoE (IEEE 802.3af class 2)	
Max power consumption ²	(W)	3.6	

Camera Specification

	AR glass
(fps)	296.5
(fps)	435
	1 μs - 10 s
(bit)	10/12
(dB)	67.2
(dB)	0-48
(dB)	40.0
(MB)	384
	Binning, decimation, ROI, gamma, black level, LUT, defective pixel correction
	Mono 8/ 10p/ 10Packed/ 12p/12Packed
	yes
	3
	2/4
	Free run, software trigger, hardware trigger, PTP (IEEE 1588)
	(fps) (bit) (dB) (dB) (dB)

Compliance

Standards		GigE Vision 2.2, GenlCam, 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		

Mechanical Specifications

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

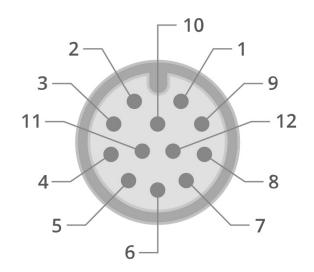
Environment

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

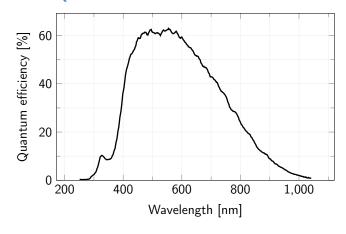


M12 PINOUT

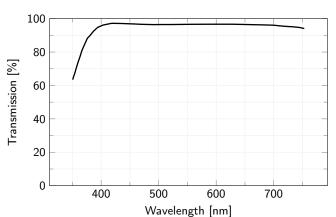


Pin	Signal
1	GND
2	+VIN
3	Opto OUT 3
4	Opto IN 0
5	Opto OUT 2
6	Opto OUT 0
7	Opto REF GND
8	RS232 RX
9	RS232 TX
10	Opto REF V+
11	Opto IN 1
12	Opto OUT 1

SENSOR QUANTUM EFFICIENCY



FILTERS TRANSMISSION



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.

COMPATIBLE PRODUCTS

Full list of compatible products available here.



A wide selection of innovative machine vision components.