

ITA32-GC-10C-IP | DATASHEET

Area scan camera 3.2MP, Sony IMX265, CMOS Global shutter, 1/1.8", Color, 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



BINNING AND **DECIMATION**

CHUNK DATA AUTO WHITE BALANCE

COLOR **OPTO CORRECTION ISOLATED I/O MATRIX**

















ENCODER

DUAL SERIAL INTERFACE

MODBUS

API C

API C++

API C#

API Python

WINDOWS

LINUX



SPECIFICATIONS

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Megapixel		3.2	
Resolution		2064 x 1544	
Sensor format		1/1.8"	
Sensor diagonal	(mm)	8.8	
Pixel size	(µm)	3.45	
Sensor model		IMX265	
Sensor type		CMOS	
Shutter		Global	
Chroma		Color	

Connectivity

Connectivity		
Data connector		RJ45
Data interface		1 GigE
I/O connector		12-pin Hirose
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

Filter		IR cut
Frame rate ¹	(fps)	36.9
Frame rate burst	(fps)	55.5
Exposure time		1.08 µs - 10 s
ADC resolution	(bit)	10/12
Dynamic range	(dB)	71.4
Gain range	(dB)	0-48
SNR	(dB)	40.1
Image buffer	(MB)	384
Image processing		Binning, decimation, ROI, gamma, black level, LUT, defective pixel correction, white balance, color corection matrix
Pixel formats		Mono 8, RGB8, Bayer GR 8/10p/10Packed/12p/12Packed, YUV 422_8, YUV411_8_UYYVYY
Chunk data		yes
User sets		3
Timers/Counters		2/4
Synchronization		Free run, software trigger, hardware trigger, PTP (IEEE 1588)

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

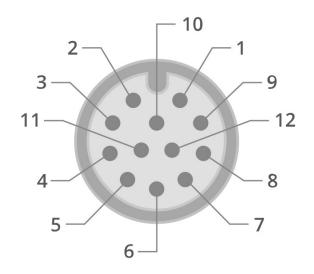
Operating temperature ³	(°C)	-25 - +65
Storage temperature ⁴	(°C)	-10 - +60
Operating relative humidity	(%)	20-80, non condensing
IP rating		IP67

- 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

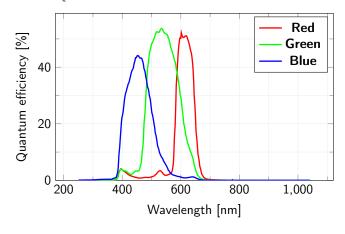


M12 PINOUT

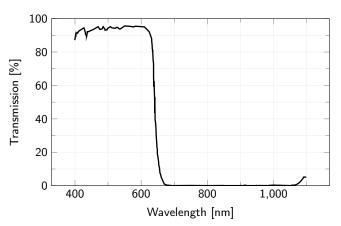


Pin	Signal
1	GND
2	+VIN
3	Opto OUT 3
4	Opto IN 0
5	Opto OUT 2
6	Opto OUT 0
7	Opto REF GND
8	RS232 RX
9	RS232 TX
10	Opto REF V+
11	Opto IN 1
12	Opto OUT 1

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.