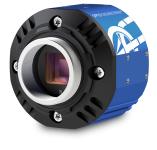


ITA32-GM-10C-IP | DATASHEET

Area scan camera 3.2MP, Sony IMX265, CMOS Global shutter, 1/1.8", Mono, 1 GigE, POE, C mount





GEN**<i>**CAM









INTERNATIONAL PATENT

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 alu-

minum 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

IP 67	1 GigE	12-24 F Volt	PoE	12-BIT				1 2 +
IP67	1 GIGE	12-24 VOLT	POWER OVER ETHERNET	12-BIT DEPTH	BURST	IMAGE COM- PRESSION	FAST TRIGGER MODE	DUAL EXPOSURE
1 2 3		Ō				I ≤ K	nnn nnn	RS-232 RS-485
SEQUENCER	PRECISION TIME PROTOCOL	SCHEDULED ACTION COMMAND	REGION OF INTEREST	BINNING AND DECIMATION	CHUNK DATA	OPTO ISOLATED I/O	ENCODER	DUAL SERIAL INTERFACE
	API C	API C++	API C#	API python [*]				
MODBUS	ΑΡΙ C	API C++	API C#	API Python	WINDOWS	LINUX		

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ITA32-GM-10C-IP | DATASHEET



SPECIFICATIONS

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		Mono

Camera Specification

Filter		AR glass
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)	71.3
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
Pixel formats		Mono 8/ 10p/ 10Packed/ 12p/12Packed
Chunk data		yes
User sets		3
Timers/Counters		2/4
Synchronization		Free run, software trigger, hardware trigger, PTP (IEEE 1588)

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

Compliance			Er
Standards		GigE Vision 2.2, GenICam, GenTL	0
Client software		ITALA View or other GigE Vision 2.x	
		software	Op
Operating systems		64-bit Windows 10/11	IP
Operating systems		Ubuntu 18.04/20.04/22.04	
		EN 60068-2-27	1 (
Shock and vibration		EN 60068-2-6	2 3 (
		EN 60068-2-64	4 /
Warranty	(years)	5	

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

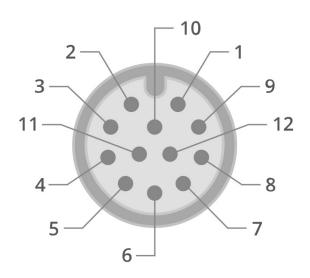
Mechanical Specifications

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

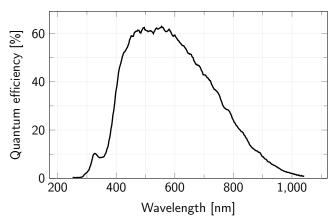
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M12 PINOUT



SENSOR QUANTUM EFFICIENCY



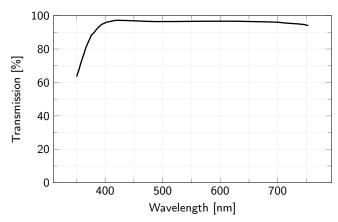
RECOMMENDED ACCESSORIES



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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