

ITA246-GM-20C-IP | DATASHEET

Area scan camera 24.55MP, Sony IMX540, CMOS Global shutter, 1.2", 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.

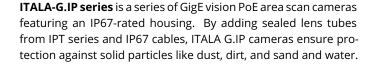
MAXIMUM CONNECTIVITY

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

HIGH PROCESSING CAPABILITY

Large on-board image buffer, large FPGA.

EXCELLENT QUALITY/PRICE RATIO



KEY FEATURES





CEFC UK ON ROHS REACH















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**





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

_	_			
Sensor	Sn	ociti	cat	ION
3611301	30	CUIII	cat	1011

	24.55
	5328 x 4608
	1.2"
(mm)	19.3
(µm)	2.74
	IMX540
	CMOS
	Global
	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)	4.3

Camera Specification

	AR glass
(fps)	4.8
(fps)	9.1
	1.01 µs - 10 s
(bit)	10/12
(dB)	70.4
(dB)	0-48
(dB)	39.8
(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		С
Dimensions	(mm)	54 x 54 x 51.3
Clamping system		16x M3 threaded holes (on all sides)
Mass	(g)	200

Environment

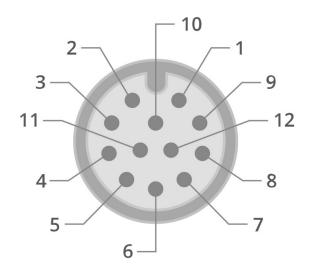
Operating temperature ³	(°C)	-25 - +65
Storage temperature ⁴	(°C)	-10 - +60
Operating relative humidity	(%)	20-80, non condensing
IP rating		IP67

- ¹ Color-model's fps are calculated using BayerRG8 pixel format
- Measured with 24V power supply
 Case temperature, measured on the front part of the camera body

⁴ Ambient temperature

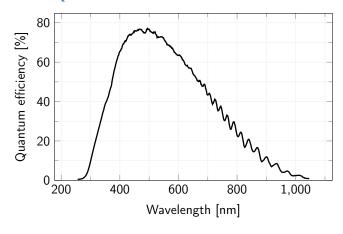


M12 PINOUT

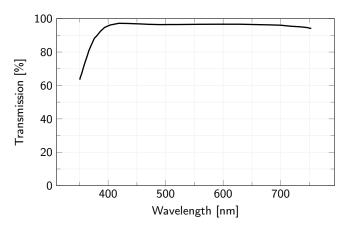


Pin	Signal	
1	GND	
2	+VIN	
3	Opto OUT 3	
4	Opto IN 0	
5	Opto OUT 2	
6	Opto OUT 0	
7	Opto REF GND	
8	RS232 RX	
9	RS232 TX	
10	Opto REF V+	
11	Opto IN 1	
12	Opto OUT 1	

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.