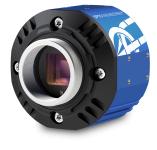


ITA246-GC-20C-IP | DATASHEET

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

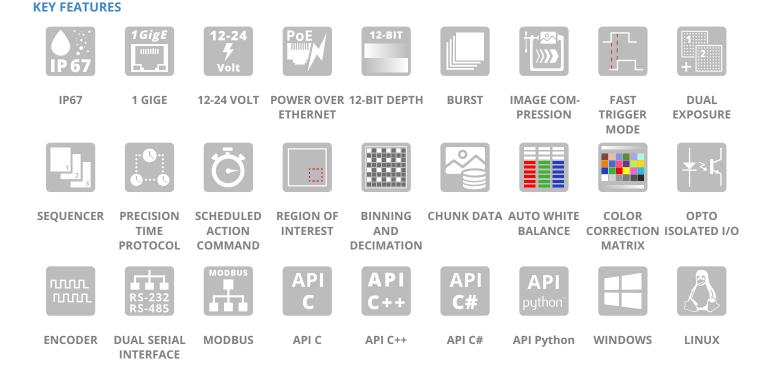
MAXIMUM CONNECTIVITY Isolated PoE supply, broad range of I/Os, serial communication.

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.

ITA246-GC-20C-IP | DATASHEET



SPECIFICATIONS

Sensor Specification			Camera Specification			
Megapixel		24.55	Filter			IR cut
Resolution		5328 x 4608	Frame rate ¹	(fps)		4.8
Sensor format		1.2"	Frame rate burst	(fps)		9.1
Sensor diagonal	(mm)	19.3	Exposure time			1.01 µs - 10 s
Pixel size	(µm)	2.74	ADC resolution	(bit)		10/12
Sensor model		IMX540	Dynamic range	(dB)		70.5
Sensor type		CMOS	Gain range	(dB)		0-48
Shutter		Global	SNR	(dB)		39.7
Chroma		Color	Image buffer	(MB)		384
Connectivity			Image processing	ge processing		ning, decimation, ROI, nma, black level, LUT, ve pixel correction, white
Data connector		RJ45				balance, color corection matrix
Data interface		1 GigE	Pixel formats		Mono 8, RGB8, Bayer GR 8/10p/10Packed/12p/12Packed, YUV 422_8, YUV411_8_UYYVYY	
I/O connector		12-pin Hirose				
I/O interface		2x opto-isolated input 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	Synchronization		Free run, software trigger, hardware trigger, PTP (IEEE	
Power supply	(V)	12-24, PoE (IEEE 802.3af class 2)				
Max power consumption ²	(W)	4.3				1588)
Compliance			Environment			
Standards		GigE Vision 2.2, GenICam, GenTL	Operating tempera	ture ³	(°C)	-25 - +65
Client software	ITALA View or other GigE Vision 2.x software		Storage temperatu	re ⁴	(°C)	-10 - +60
			Operating relative h	umidity	/ (%)	20-80, non condensing

	software	_ Operating rel
Operating systems	64-bit Windows 10/11	IP rating
Operating systems	Ubuntu 18.04/20.04/22.04	0
	EN 60068-2-27	¹ Color-model
Shock and vibration	EN 60068-2-6	² Measured wi ³ Case temper
	EN 60068-2-64	⁴ Ambient tem

5

Warranty (years)

Mechanical Specifications

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

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

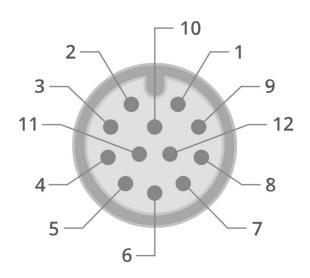
el's fps are calculated using BayerRG8 pixel format

with 24V power supply erature, measured on the front part of the camera body mperature

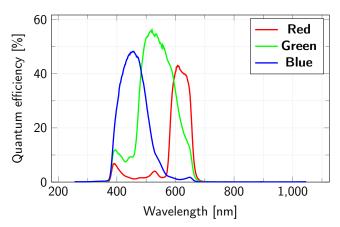
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M12 PINOUT



SENSOR QUANTUM EFFICIENCY



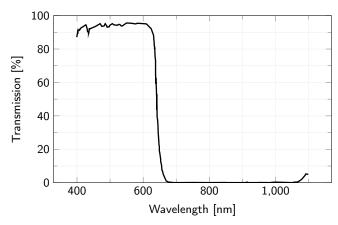
RECOMMENDED ACCESSORIES



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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