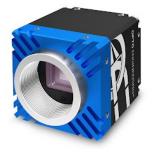


ITA32-GM-10C | DATASHEET

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

emva





GEN**<i>**CAM





KEY ADVANTAGES

MADE IN ITALY Cameras designed and manufactured in Italy by Opto Engineering.

TOP QUALITY SERVICE 5 years warranty.

HIGH ROBUSTNESS Aluminum body & steel lens mount, shock & vibration certified, wide temperature range.

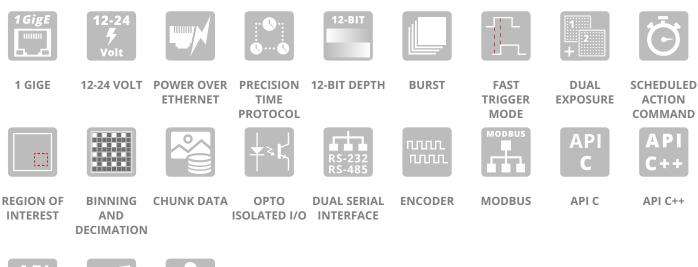
MAXIMUM CONNECTIVITY Isolated PoE supply, broad range of I/Os, serial communication.

HIGH PROCESSING CAPABILITY Large on-board image buffer, large FPGA.

EXCELLENT QUALITY/PRICE RATIO

The ITALA-G series is a series of GigE Vision industrial cameras designed and manufactured in Italy by Opto Engineering®.

KEY FEATURES



API C

WINDOWS LINUX

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ITA32-GM-10C | DATASHEET



SPECIFICATIONS

Sensor Specification			Ca
Megapixel		3.2	Fil
Resolution		2064 x 1544	Fr
Sensor format		1/1.8"	Fr
Sensor diagonal	(mm)	8.8	Ex
Pixel size	(µm)	3.45	A
Sensor model		IMX265	Dy
Sensor type		CMOS	Ga
Shutter		Global	SN
Chroma		Mono	Im

Camera Specification

Filter		AR glass
Frame rate ¹	(fps)	36.9
Frame rate burst	(fps)	50.1
Exposure time		1.51 µs - 10 s
ADC resolution	(bit)	10/12
Dynamic range	(dB)	69.0
Gain range	(dB)	0-48
SNR	(dB)	38.885714062694
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		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

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

Environment

	Environment		
	Operating temperature ³	(°C)	-25 - +65
	Storage temperature ⁴	(°C)	-10 - +60
_	Operating relative humidity	(%)	20-80, non condensing
	IP rating		IP30

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

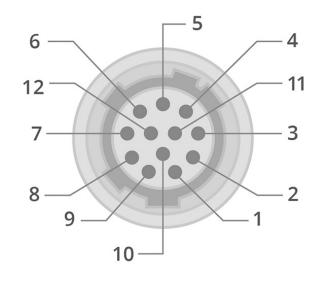
Mechanical Specifications

······································		
Mount		C
Dimensions	(mm)	40.5 x 40.5 x 51.2
Clamping system		16x M3 threaded holes (on all sides)
Mass	(g)	142

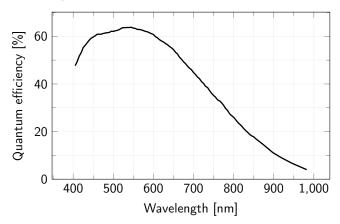
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HIROSE PINOUT



SENSOR QUANTUM EFFICIENCY



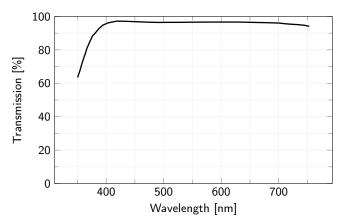
RECOMMENDED ACCESSORIES

Opto-Engineering® suggests the following accessories to power the camera:

- **CBETH003**, Ethernet cable, CAT6, industrial level, high flexible cable with screw, 5 m
- **CBGPIO001**, I/O cable, side 1 HIROSE 12 pin, side 2 cable end, 3 m
- **RT-POE15M-1AFE-R**, 15.4W Single Port Power-over-Ethernet IEEE802.3af Power Injector

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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