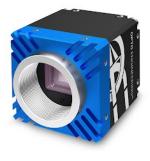


ITA32-GM-10C | DATASHEET

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





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.

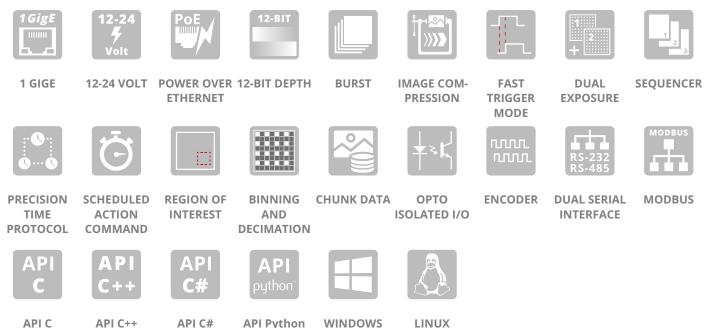
MAXIMUM CONNECTIVITY Isolated PoE supply, broad range of I/Os, serial communication.

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



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ITA32-GM-10C | DATASHEET



SPECIFICATIONS

Sensor Specification		Camera Specification		
Megapixel		3.2	Filter	
Resolution		2064 x 1544	Frame rate ¹	(fp
Sensor format		1/1.8"	Frame rate burst	(fp
Sensor diagonal	(mm)	8.8	Exposure time	
Pixel size	(µm)	3.45	ADC resolution	(bi
Sensor model		IMX265	Dynamic range	(dE
Sensor type		CMOS	Gain range	(dE
Shutter		Global	SNR	(dE
Chroma		Mono	Image buffer	(MI

Connectivity RJ45 Data connector 1 GigE Data interface I/O connector 12-pin Hirose 2x opto-isolated input I/O interface 4x opto-isolated output Serial interface RS232, RS485 Liquid lens controller no Enconder interface yes, incremental 12-24, PoE (IEEE 802.3af class 2) Power supply (V) Max power consumption² (W) 3.6

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)

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	

Environment

Linvironment		
Operating temperature ³	(°C)	-25 - +65
Storage temperature ⁴	(°C)	-10 - +60
Operating relative humidity	(%)	20-80, non condensing
IP rating		IP30
	Operating temperature ³ Storage temperature ⁴ Operating relative humidity	Storage temperature4(°C)Operating relative humidity(%)

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

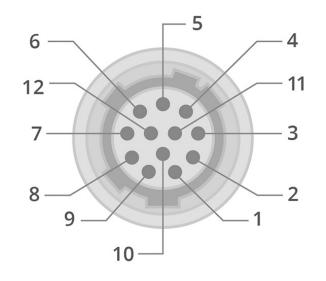
Mechanical Specifications

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

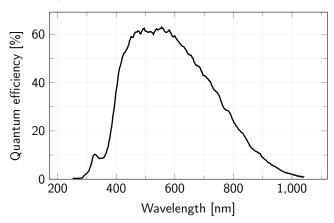
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HIROSE PINOUT



SENSOR QUANTUM EFFICIENCY



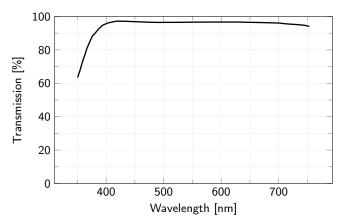
RECOMMENDED ACCESSORIES

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

- **RT-A72-0418-05**, Ethernet cable, CAT6A, industrial level, high flexible cable with screw, 5 m
- **RT-A65-7105-05**, I/O cable, side 1 HIROSE 12 pin, side 2 cable end, 5 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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