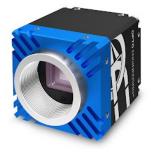


ITA04-GM-10C | DATASHEET

Area scan camera 0.4MP, Sony IMX287, CMOS Global shutter, 1/2.9", Mono, 1 GigE, POE, C mount





GEN**<i>**CAM



emva



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.

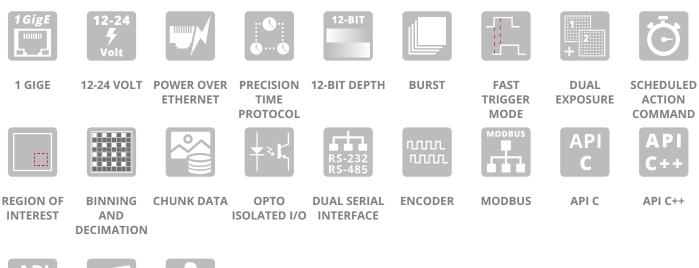
MAXIMUM CONNECTIVITY Isolated PoE supply, broad range of I/Os, serial communication.

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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ITA04-GM-10C | DATASHEET



AR glass

296.7

SPECIFICATIONS

Sensor Specification			Camera Specification	
Megapixel		0.4	Filter	
Resolution		728 x 544	Frame rate ¹	(fp
Sensor format		1/2.9"	Frame rate burst	(fp
Sensor diagonal	(mm)	6.2	Exposure time	
Pixel size	(µm)	6.9	ADC resolution	(bi
Sensor model		IMX287	Dynamic range	(dE
Sensor type		CMOS	Gain range	(dE
Shutter		Global	SNR	(dE
Chroma		Mono	Image buffer	(M

432.8 me rate burst (fps) 1 µs - 10 s osure time C resolution (bit) 10/12 64.4 namic range (dB) 0-48 n range (dB) (dB) 38.2830727530619 384 age buffer (MB) Binning, decimation, ROI, gamma, black level, LUT, Image processing defective pixel correction Mono 8/ 10p/ 10Packed/ Pixel formats 12p/12Packed Chunk data yes User sets 3 2/4 **Timers/Counters** Free run, software trigger, Synchronization hardware trigger, PTP (IEEE 1588)

(fps)

Connectivity Data connector

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	0
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	3
		EN 60068-2-64	4
Warranty	(years)	5	

Environment

	LINIONNEIL		
_	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

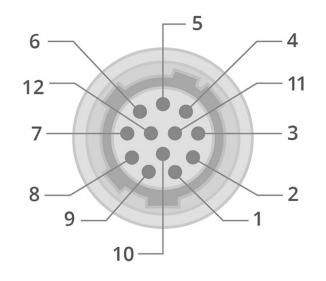
Mechanical Specifications

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

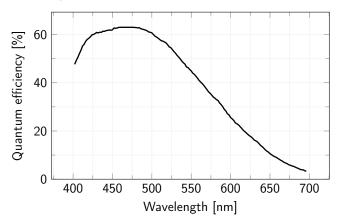
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HIROSE PINOUT



SENSOR QUANTUM EFFICIENCY



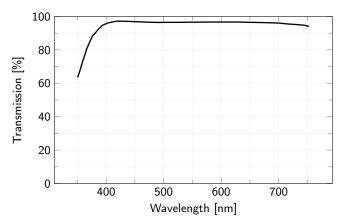
RECOMMENDED ACCESSORIES

 $\mathsf{Opto}\text{-}\mathsf{Engineering} \\ \$$ 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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