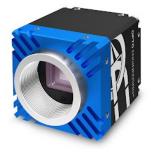


ITA04-GC-10C | DATASHEET

Area scan camera 0.4MP, Sony IMX287, CMOS Global shutter, 1/2.9", Color, 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.

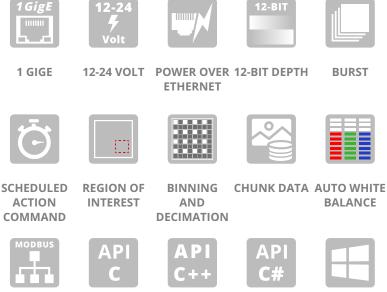
MAXIMUM CONNECTIVITY Isolated PoE supply, broad range of I/Os, serial communication.

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



MODBUS

API C



API C





FAST

TRIGGER

MODE





ΔΠΔΙ

EXPOSURE



SEQUENCER



PRECISION

TIMF

COLOR ΟΡΤΟ **CORRECTION ISOLATED I/O** MATRIX

ENCODER

DUAL SERIAL INTERFACE



WINDOWS

I INUX

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ITA04-GC-10C | DATASHEET



SPECIFICATIONS

Sensor Specification			Camera Specificati	ion	
Megapixel		0.4	Filter		IR cut
Resolution		728 x 544	Frame rate ¹	(fps)	296.7
Sensor format		1/2.9"	Frame rate burst	(fps)	432.8
Sensor diagonal	(mm) 6.2	Exposure time		1 µs - 10 s
Pixel size	(µm)	6.9	ADC resolution	(bit)	10/12
Sensor model		IMX287	Dynamic range	(dB)	66.8
Sensor type		CMOS	Gain range	(dB)	0-48
Shutter		Global	SNR	(dB)	40.070543457946
Chroma		Color	Image buffer	(MB)	384
Connectivity Data connector		RJ45	Image processing		Binning, decimation, ROI, gamma, black level, LUT, defective pixel correction, white balance, color corection matrix
Data interface		1 GigE			Mono 8/10/12, RGB8, Bayer GR
I/O connector		12-pin Hirose	Pixel formats		8/10p/10Packed/12p/12Packed,
I/O interface		2x opto-isolated input			YUV 422Packed
		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			Free run, software trigger,
Power supply	(V)	12-24, PoE (IEEE 802.3af class 2)	Synchronization		hardware trigger, PTP (IEEE
Max power consumption ²	(W)	3.6			1588)
Compliance			Environment		
Standards		GigE Vision 2.2. GenICam. GenTL	Operating temperat	ture ³	(°C) -25 - +65

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

	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

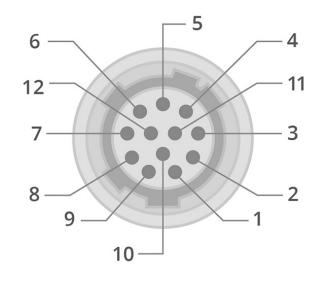
Mechanical Specifications

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

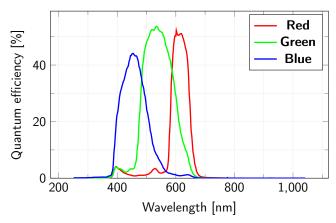
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HIROSE PINOUT



SENSOR QUANTUM EFFICIENCY



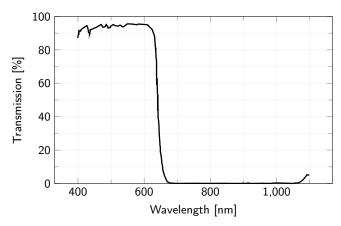
RECOMMENDED ACCESSORIES

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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