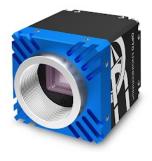


ITA23-GM-10C | DATASHEET

Area scan camera 2.4MP, Sony IMX249, CMOS Global shutter, 1/1.2", 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.

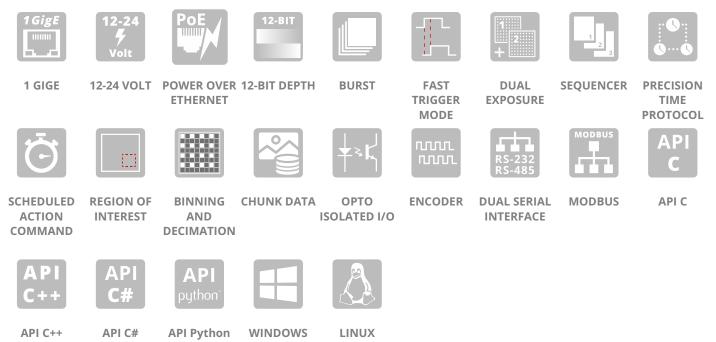
MAXIMUM CONNECTIVITY Isolated PoE supply, broad range of I/Os, serial communication.

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



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.

ITA23-GM-10C | DATASHEET



AR glass

SPECIFICATIONS

Sensor Specification		
Megapixel		2.4
Resolution		1936 x 1216
Sensor format		1/1.2"
Sensor diagonal	(mm)	13.4
Pixel size	(µm)	5.86
Sensor model		IMX249
Sensor type		CMOS
Shutter		Global
Chroma		Mono

Shutter		Global	SNR
Chroma		Mono	Image
Connectivity			Image
Data connector		RJ45	
Data interface		1 GigE	Pixel
I/O connector		12-pin Hirose	Chun
I/O interface	2x opto-isolated input 4x opto-isolated output		User
			Timer
Serial interface		RS232, RS485	
Liquid lens controller		no	Synch
Enconder interface		yes, incremental	-)
Power supply	(V)	12-24, PoE (IEEE 802.3af class 2)	

3.8

		÷
Frame rate ¹	(fps)	31.6
Frame rate burst	(fps)	31.6
Exposure time		39 µs - 10 s
ADC resolution	(bit)	10/12
Dynamic range	(dB)	72.2
Gain range	(dB)	0-48
SNR	(dB)	44.8
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)

Com	pl	iance	

Max power consumption²

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

(W)

Environment

Camera Specification

Filter

	Linvironment		
_	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

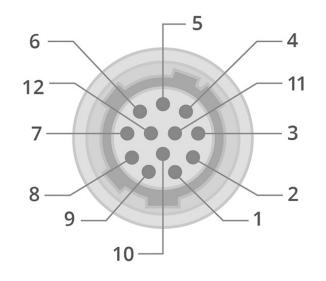
Mechanical Specifications

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

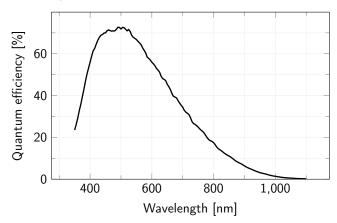
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HIROSE PINOUT



SENSOR QUANTUM EFFICIENCY



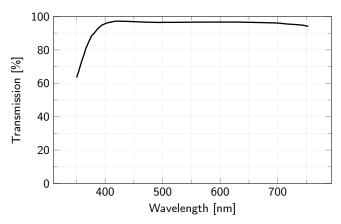
RECOMMENDED ACCESSORIES

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

- **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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