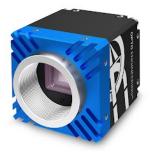


ITA24-GM-10C | DATASHEET

Area scan camera 2.4MP, Sony IMX392, CMOS Global shutter, 1/2.3", Mono, 1 GigE, POE, C mount





GEN**<i>**CAM





KEY FEATURES

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®.

	12-24 7 Volt	PoE	12-BIT				1 2 +	123	
1 GIGE	12-24 VOLT	POWER OVER ETHERNET	12-BIT DEPTH	BURST	IMAGE COM- PRESSION	FAST TRIGGER MODE	DUAL EXPOSURE	SEQUENCER	
	Ō						RS-232 RS-485	MODBUS	
PRECISION TIME PROTOCOL	SCHEDULED ACTION COMMAND	REGION OF INTEREST	BINNING AND DECIMATION	CHUNK DATA	OPTO ISOLATED I/O	ENCODER	DUAL SERIAL INTERFACE	MODBUS	
API C	API C++	API C#	API python [*]						
API C	API C++	API C#	API Python	WINDOWS	LINUX				

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ITA24-GM-10C | DATASHEET



SPECIFICATIONS

Sensor Specification		
Megapixel		2.4
Resolution		1936 x 1216
Sensor format		1/2.3"
Sensor diagonal	(mm)	7.9
Pixel size	(µm)	3.45
Sensor model		IMX392
Sensor type		CMOS
Shutter		Global
Chroma		Mono

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)	3.8		

Filter		AR glass
Frame rate ¹	(fps)	49.9
Frame rate burst	(fps)	89.4
Exposure time		1 µs - 10 s
ADC resolution	(bit)	10/12
Dynamic range	(dB)	71.1
Gain range	(dB)	0-48
SNR	(dB)	40.0
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, GenICam, 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

Camera Specification

	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

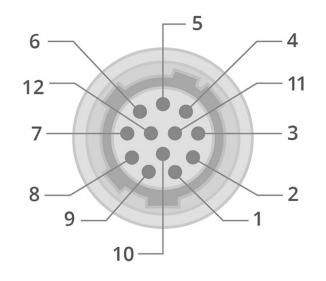
Mechanical Specifications

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

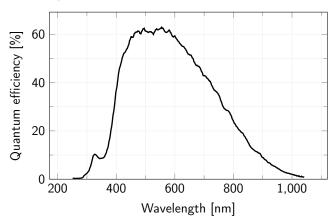
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HIROSE PINOUT



SENSOR QUANTUM EFFICIENCY



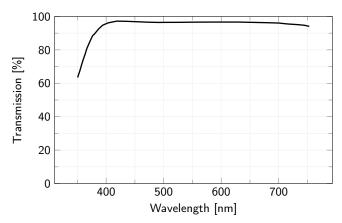
RECOMMENDED ACCESSORIES

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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