

ITA24-GM-10C | DATASHEET

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





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



















1 GIGE

12-24 VOLT POWER OVER 12-BIT DEPTH **ETHERNET**

BURST

IMAGE COM-PRESSION

FAST TRIGGER MODE

DUAL EXPOSURE

SEQUENCER

















INTERFACE



PRECISION TIME **PROTOCOL**

SCHEDULED ACTION COMMAND

REGION OF INTEREST

BINNING AND

DECIMATION

CHUNK DATA

OPTO ISOLATED I/O

ENCODER

DUAL SERIAL MODBUS













LINUX

API C

API C++

API C#

API Python

WINDOWS



SPECIFICATIONS

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Sensor	Sn	aciti/	"ation
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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

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

Camera Specification

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, 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

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	

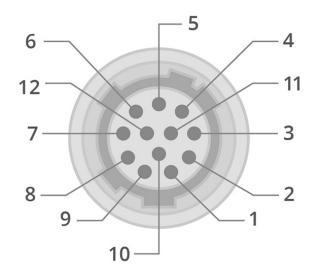
Environment

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

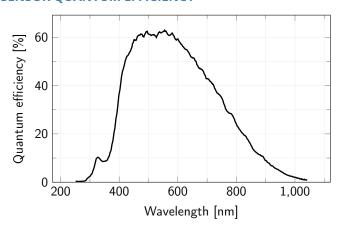


HIROSE PINOUT

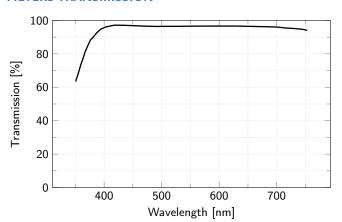


Pin	Signal
1	GND
2	+VIN
3	Opto OUT 3
4	Opto IN 0
5	Opto OUT 2
6	Opto OUT 0
7	Opto REF GND
8	RS232 RX
9	RS232 TX
10	Opto REF V+
11	Opto IN 1
12	Opto OUT 1

SENSOR QUANTUM EFFICIENCY



FILTERS TRANSMISSION



RECOMMENDED ACCESSORIES

Opto-Engineering ${\bf @}$ 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

COMPATIBLE PRODUCTS

Full list of compatible products available here.



A wide selection of innovative machine vision components.