

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





CEFE UK ROHS REACH















1 GIGE

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

BURST

FAST TRIGGER MODE

DUAL **EXPOSURE**

SEQUENCER

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

WINDOWS

LINUX



SPECIFICATIONS

		ation

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

Camera Specification

Filter AR glass Frame rate 1 (fps) 49.9 Frame rate burst (fps) 89.3 Exposure time 1 µs - 10 s ADC resolution (bit) 10/12 Dynamic range (dB) 71.1 Gain range (dB) 0-48 SNR (dB) 40.0542226291392 Image buffer (MB) 384 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 Free run, software trigger, hardware trigger, PTP (IEEE 1588)	the state of the s		
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Image processing 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 Free run, software trigger, bardware trigger, PTP (IEEE	Image buffer	(MB)	384
Chunk data User sets 3 Timers/Counters 2/4 Free run, software trigger, Synchronization hardware trigger, PTP (IEEE	Image processing		gamma, black level, LUT,
User sets 3 Timers/Counters 2/4 Free run, software trigger, hardware trigger, PTP (IEEE	Pixel formats		
Timers/Counters 2/4 Free run, software trigger, hardware trigger, PTP (IEEE	Chunk data		yes
Free run, software trigger, Synchronization hardware trigger, PTP (IEEE	User sets		3
Synchronization hardware trigger, PTP (IEEE	Timers/Counters		2/4
	Synchronization		hardware trigger, PTP (IEEE

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

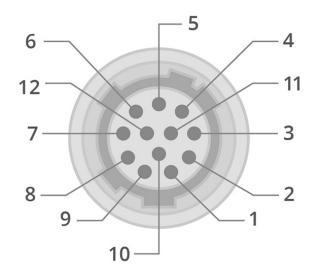
Operating temperature ³	(°C)	-25 - +65
Storage temperature ⁴	(°C)	-10 - +60
Operating relative humidity	(%)	20-80, non condensing
IP rating		IP30

- ¹ Color-model's fps are calculated using BayerRG8 pixel format
- Measured with 24V power supply
 Case temperature, measured on the front part of the camera body

⁴ Ambient temperature

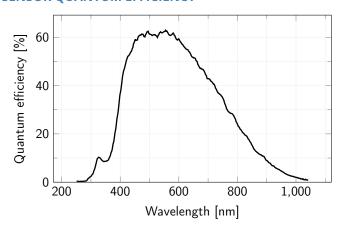


HIROSE PINOUT

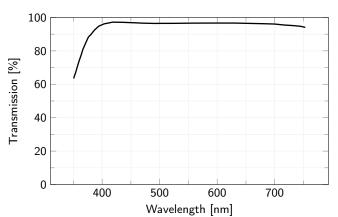


Pin	Signal
1	GND
2	+VIN
3	Opto OUT 3
4	Opto IN 0
5	Opto OUT 2
6	Opto OUT 0
7	Opto REF GND
8	RS232 RX
9	RS232 TX
10	Opto REF V+
11	Opto IN 1
12	Opto OUT 1

SENSOR QUANTUM EFFICIENCY



FILTERS TRANSMISSION



RECOMMENDED ACCESSORIES

 $\mbox{\sc Opto-Engineering} \mbox{\sc Buggests}$ 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

COMPATIBLE PRODUCTS

Full list of compatible products available here.



A wide selection of innovative machine vision components.