

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 **ETHERNET**

TIME **PROTOCOL**

PRECISION 12-BIT DEPTH

BURST

FAST **TRIGGER** MODE

DUAL EXPOSURE

SCHEDULED ACTION COMMAND



















REGION OF INTEREST

BINNING AND

DECIMATION

CHUNK DATA OPTO

DUAL SERIAL ISOLATED I/O INTERFACE

ENCODER

MODBUS

AUTO WHITE BALANCE

COLOR CORRECTION MATRIX





API C++

WINDOWS



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

Camera Specification

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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)	70.0
Gain range	(dB)	0-48
SNR	(dB)	40.2
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	
Shock and vibration ³	n.a.	
Warranty (year	s) 5	

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

Environment

Operating temperature ⁴	(°C)	-25 - +65
Storage temperature ⁵	(°C)	-10 - +60
Operating relative humidity	(%)	20-80, non condensing
IP rating		IP30

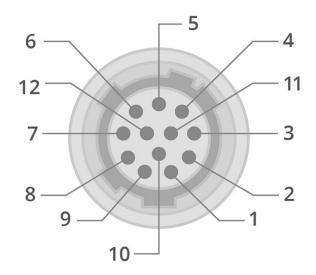
- ¹ Color-model's fps are calculated using RGB8 pixel format

- Color-moders ups are calculated using node place.
 Measured with 24V power supply
 To be measured after pre-series production
 Case temperature, measured on the front part of the camera body

⁵ Ambient temperature

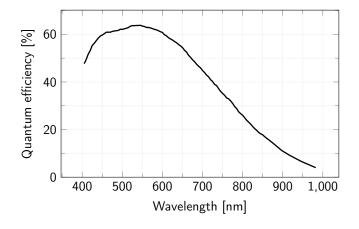


HIROSE PINOUT

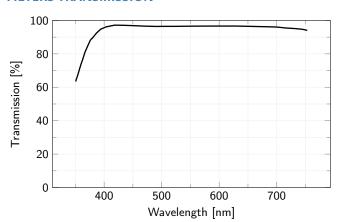


Pin	Signal
1	GND
2	+VIN
3	Opto OUT 3
4	Opto IN 0
5	Opto OUT 2
6	Opto OUT 0
7	Opto REF GND
8	RS232 RX
9	RS232 TX
10	Opto REF V+
11	Opto IN 1
12	Opto OUT 1

SENSOR QUANTUM EFFICIENCY



FILTERS TRANSMISSION



RECOMMENDED ACCESSORIES

- 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.