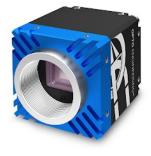


ITA24-GC-10C | DATASHEET

Area scan camera 2.4MP, Sony IMX392, CMOS Global shutter, 1/2.3", Color, 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.

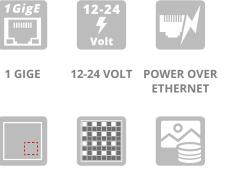
MAXIMUM CONNECTIVITY Isolated PoE supply, broad range of I/Os, serial communication.

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





ETHERNET



BINNING **CHUNK DATA** AND DECIMATION





API C++

WINDOWS



TIME

PROTOCOL

LINUX

PRECISION 12-BIT DEPTH

emva

DUAL SERIAL



BURST

MODBUS

FAST

TRIGGER

MODE

SCHEDULED ACTION

COMMAND

DUAL

EXPOSURE



AUTO WHITE COLOR CORRECTION BALANCE MATRIX

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ITA24-GC-10C | DATASHEET



SPECIFICATIONS

Sensor Specification			Camera Specification			
Megapixel		2.4	Filter			IR cut
Resolution		1936 x 1216	Frame rate ¹	(fps)		49.9
Sensor format		1/2.3"	Frame rate burst	(fps)		89.3
Sensor diagonal	(mm)	7.9	Exposure time			1 µs - 10 s
Pixel size	(µm)	3.45	ADC resolution	(bit)		10/12
Sensor model		IMX392	Dynamic range	(dB)		56.8
Sensor type		CMOS	Gain range	(dB)		0-48
Shutter		Global	SNR	(dB)	32.0	490645257122
Chroma		Color	Image buffer	(MB)		384
Connectivity Data connector		RJ45	Image processing		gamma defective p	, decimation, ROI, , black level, LUT, ixel correction, white olor corection matrix
Data interface		1 GigE				/12, RGB8, Bayer GR
I/O connector		12-pin Hirose	Pixel formats			acked/12p/12Packed,
I/O interface		2x opto-isolated input			YU	V 422Packed
		4x opto-isolated output	Chunk data			yes
Serial interface		RS232, RS485	User sets			3
Liquid lens controller		no	Timers/Counters			2/4
Enconder interface		yes, incremental				n, software trigger,
Power supply	(V)	12-24, PoE (IEEE 802.3af class 2)	Synchronization		hardwar	e trigger, PTP (IEEE
Max power consumption ²	(W)	3.8				1588)
Compliance			Environment			
Standards		GigE Vision 2.2, GenlCam, GenTL	Operating tempera	ture ³	(°C)	-25 - +65

Stanuarus		dige vision 2.2, denicani, denie
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

	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

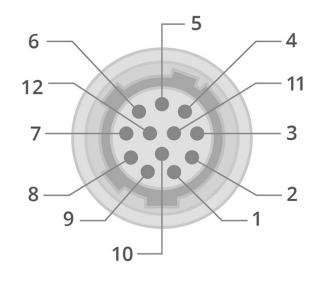
Mechanical Specifications

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

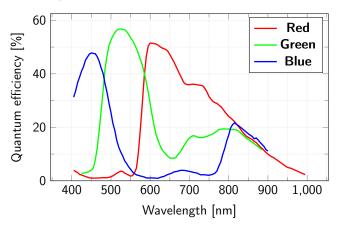
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HIROSE PINOUT



SENSOR QUANTUM EFFICIENCY



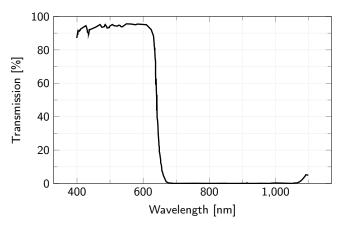
RECOMMENDED ACCESSORIES

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

- **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

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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