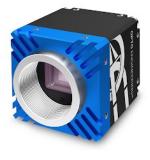


ITA24-GC-10C | DATASHEET

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

1 GigE	12-24 F Volt	PoE	12-BIT					123
1 GIGE	12-24 VOLT	POWER OVER ETHERNET	12-BIT DEPTH	BURST	IMAGE COM- PRESSION	FAST TRIGGER MODE	DUAL EXPOSURE	SEQUENCER
	Ō						J×K	nnn nnn
PRECISION TIME PROTOCOL	SCHEDULED ACTION COMMAND	REGION OF INTEREST	BINNING AND DECIMATION	CHUNK DATA	AUTO WHITE BALANCE	COLOR CORRECTION MATRIX	OPTO ISOLATED I/O	ENCODER
RS-232 RS-485	MODBUS	API C	API C++	API C#	API python ⁻			
DUAL SERIAL INTERFACE	MODBUS	API C	API C++	API C#	API Python	WINDOWS	LINUX	

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ITA24-GC-10C | DATASHEET



SPECIFICATIONS

Sensor Specification			Camera Specificat	ion		
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)		89.4
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)		71.0
Sensor type		CMOS	Gain range	(dB)		0-48
Shutter		Global	SNR	(dB)		40.1
Chroma		Color	Image buffer	(MB)		384
Connectivity Data connector		RJ45	Image processing		gamm defective	g, decimation, ROI, Ia, black level, LUT, pixel correction, white color corection matrix
Data interface		1 GigE			Mono	8, RGB8, Bayer GR
I/O connector		12-pin Hirose	Pixel formats			Packed/12p/12Packed,
I/O interface		2x opto-isolated input			YUV 422_8, YUV411_8_UYYVYY	
		4x opto-isolated output	Chunk data			yes
Serial interface		RS232, RS485	User sets			3
Liquid lens controller		no	Timers/Counters			2/4
		yes, incremental	Synchronization		Free run, software trigger, hardware trigger, PTP (IEEE 1588)	
		12-24, PoE (IEEE 802.3af class 2)				
Max power consumption ²	(W)	3.8				(866)
Compliance			Environment			
Standards GigE Vision		GigE Vision 2.2, GenICam, GenTL	Operating temperature ³		(°C)	-25 - +65
	17	TALA View or other GigE Vision 2 y	Storage temperatu	ro4	(ုင)	-10 - +60

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

	Environmente		
	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

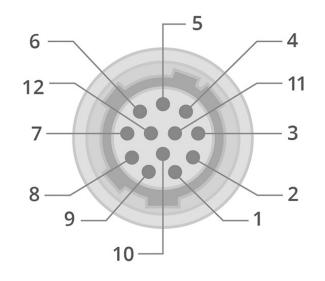
Mechanical Specifications

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

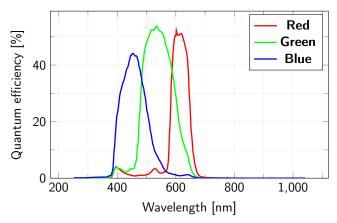
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HIROSE PINOUT



SENSOR QUANTUM EFFICIENCY



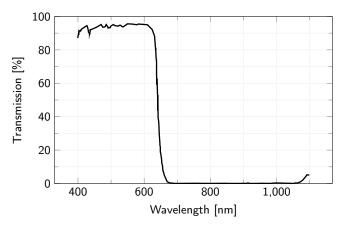
RECOMMENDED ACCESSORIES

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

- **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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