

ITA196-GC-10J | DATASHEET

Area scan camera 19.6MP, Sony IMX367, CMOS Global shutter, 4/3", Color, 1 GigE, POE, M42x1 FD 12 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.

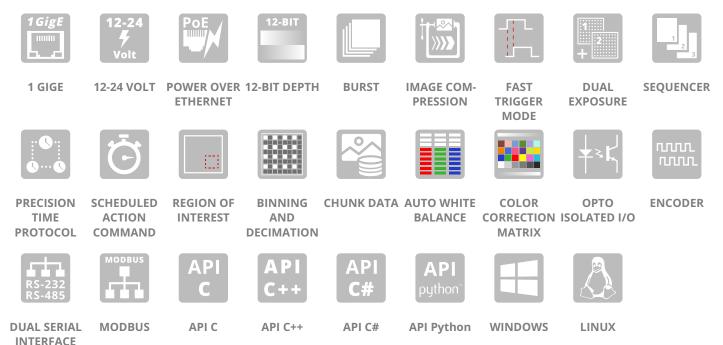
MAXIMUM CONNECTIVITY Isolated PoE supply, broad range of I/Os, serial communication.

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



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SPECIFICATIONS

Sensor Specification			Camera Specificat	tion		
Megapixel		19.6	Filter			IR cut
Resolution		4432 x 4436	Frame rate ¹	(fps)		6.0
Sensor format		4/3"	Frame rate burst	(fps)		11.7
Sensor diagonal	(mm)	21.6	Exposure time			2.40 µs - 10 s
Pixel size	(µm)	3.45	ADC resolution	(bit)		10/12
Sensor model		IMX367	Dynamic range	(dB)		71.1
Sensor type		CMOS	Gain range	(dB)		0-48
Shutter		Global	SNR	(dB)		39.9
Chroma		Color	Image buffer	(MB)		384
Connectivity Data connector			Image processing		gar defecti	ning, decimation, ROI, nma, black level, LUT, ve pixel correction, white
Data interface		1 GigE			balance, color corection matrix	
I/O connector		12-pin Hirose	Pixel formats Chunk data		Mono 8, RGB8, Bayer GR 8/10p/10Packed/12p/12Packed, YUV 422_8, YUV411_8_UYYVYY	
		2x opto-isolated input				
I/O interface		4x opto-isolated output			yes	
Serial interface	RS232, RS485		User sets		3	
Liquid lens controller		no	Timers/Counters			2/4
Enconder interface		yes, incremental			run, software trigger,	
Power supply	(V)	12-24, PoE (IEEE 802.3af class 2)			hardware trigger, PTP (IEEE 1588)	
Max power consumption ²	(W)	5.5				
Compliance			Environment			
Standards	GigE Vision 2.2, GenICam, GenTL		Operating temperature ³		(°C)	-25 - +65
Client software	ITALA View or other GigE Vision 2.x software		Storage temperatu	re ⁴	(°C)	-10 - +60
			Operating relative l	numidity	· (%)	20-80, non condensing

IP30

¹ Color-model's fps are calculated using BayerRG8 pixel format

² Measured with 24V power supply

IP rating

³ Case temperature, measured on the front part of the camera body ⁴ Ambient temperature

Mechanical Specifications

Operating systems

Shock and vibration

Warranty

Mount		M42x1 FD 12		
Dimensions	(mm)	52.5 x 52.5 x 56.6		
Clamping system		16x M3 threaded holes (on all sides)		
Mass	(g)	246		

(years)

64-bit Windows 10/11

Ubuntu 18.04/20.04/22.04

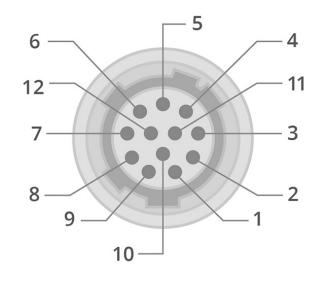
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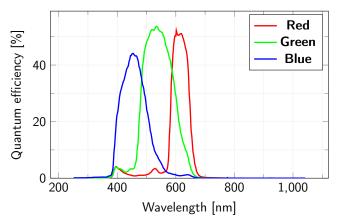
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HIROSE PINOUT



SENSOR QUANTUM EFFICIENCY



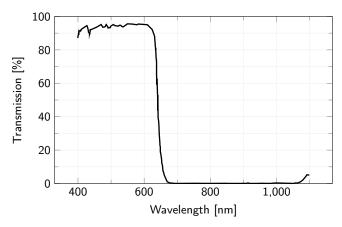
RECOMMENDED ACCESSORIES

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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