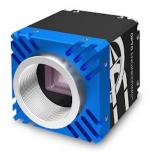


ITA89-GC-10C | DATASHEET

Area scan camera 8.9MP, Sony IMX267, CMOS Global shutter, 1", Color, 1 GigE, POE, C mount





GEN**<i>**CAM





KEY FEATURES

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®.

	-							
	12-24 % Volt	PoE	12-BIT				1	123
1 GIGE	12-24 VOLT	POWER OVER ETHERNET	12-BIT DEPTH	BURST	IMAGE COM- PRESSION	FAST TRIGGER MODE	DUAL EXPOSURE	SEQUENCER
0 0 0	Ō					11.	<u></u> ↓ × 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	

All product specifications and data are subject to change without notice to improve reliability, functionality, design or other. Photos and pictures are for illustration purposes only. Data are reported by design, actual lens performance may vary due to manufacturing tolerances.

ITA89-GC-10C | DATASHEET



SPECIFICATIONS

Sensor Specification			Camera Specificat	ion		
Megapixel		8.9	Filter		IR cut	
Resolution		4112 x 2176	Frame rate ¹	(fps)	13.1	
Sensor format		1"	Frame rate burst	(fps)	20.8	
Sensor diagonal	(mm)) 16.0	Exposure time		1.51 µs - 10 s	
Pixel size	(µm)	3.45	ADC resolution	(bit)	10/12	
Sensor model		IMX267	Dynamic range	(dB)	69.7	
Sensor type		CMOS	Gain range	(dB)	0-48	
Shutter		Global	SNR	(dB)	40.0	
Chroma		Color	Image buffer	(MB)	384	
Connectivity Data connector		RJ45	Image processing		Binning, decimation, ROI, gamma, black level, LUT, defective pixel correction, white balance, color corection matrix	
Data interface		1 GigE			Mono 8, RGB8, Bayer GR	
I/O connector		12-pin Hirose 2x opto-isolated input	Pixel formats		8/10p/10Packed/12p/12Packed, YUV 422_8, YUV411_8_UYYVYY	
I/O interface		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			Free run, software trigger,	
Power supply	(V)	12-24, PoE (IEEE 802.3af class 2)	Synchronization		hardware trigger, PTP (IEEE	
Max power consumption ²	(W)	3.9			1588)	
Compliance			Environment			
Standards		GigE Vision 2.2 GenICam GenTI	Operating tempera	turo ³	(°C) _25 - +65	

Standards	GigE Vision 2.2, GenICam, 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		

	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

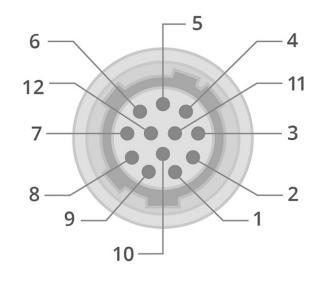
Mechanical Specifications

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

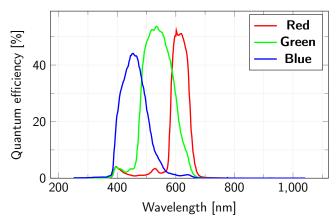
All product specifications and data are subject to change without notice to improve reliability, functionality, design or other. Photos and pictures are for illustration purposes only. Data are reported by design, actual lens performance may vary due to manufacturing tolerances.



HIROSE PINOUT



SENSOR QUANTUM EFFICIENCY



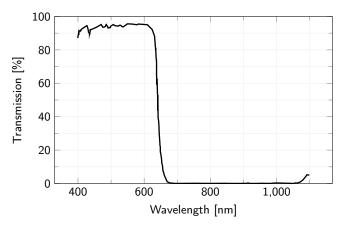
RECOMMENDED ACCESSORIES

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.

All product specifications and data are subject to change without notice to improve reliability, functionality, design or other. Photos and pictures are for illustration purposes only. Data are reported by design, actual lens performance may vary due to manufacturing tolerances.