

# ITA89-GM-10C-IP | DATASHEET

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





















### **KEY ADVANTAGES**

### **IP67-rated housing**

Protection against water and dust.

### **MADE IN ITALY**

Cameras designed and manufactured in Italy by Opto Engineering.

### **TOP QUALITY SERVICE**

5 years warranty.

### Ruggedized

-25° C to 65° operating temperature. Stainless steel mount, milled aluminum body. Tested for shock and vibration resistance.

### **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**

ITALA-G.IP series is a series of GigE vision PoE area scan cameras featuring an IP67-rated housing. By adding sealed lens tubes from IPT series and IP67 cables, ITALA G.IP cameras ensure protection against solid particles like dust, dirt, and sand and water.

### **KEY FEATURES**



















**IP67** 

1 GIGE

12-24 VOLT POWER OVER 12-BIT DEPTH **ETHERNET** 

**BURST** 

**IMAGE COM-PRESSION** 

**FAST TRIGGER** MODE

**DUAL EXPOSURE** 



















**INTERFACE** 

**SEQUENCER** 

**PRECISION** TIME **PROTOCOL** 

**SCHEDULED ACTION** 

**COMMAND** 

**REGION OF INTEREST** 

**BINNING** AND **DECIMATION** 

**CHUNK DATA OPTO ISOLATED I/O** 

**ENCODER DUAL SERIAL** 













**MODBUS** 

**API C** 

API C++

API C#

**API Python** 

**WINDOWS** 

LINUX



# **SPECIFICATIONS**

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Megapixel		8.9	
Resolution		4112 x 2176	
Sensor format		1"	
Sensor diagonal	(mm)	16.0	
Pixel size	(µm)	3.45	
Sensor model		IMX267	
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 <sup>2</sup>	(W)	3.9

# **Camera Specification**

	AR glass
(fps)	13.1
(fps)	20.8
	1.51 µs - 10 s
(bit)	10/12
(dB)	69.8
(dB)	0-48
(dB)	40.0
(MB)	384
	Binning, decimation, ROI, gamma, black level, LUT, defective pixel correction
	Mono 8/ 10p/ 10Packed/ 12p/12Packed
	yes
	3
	2/4
	Free run, software trigger, hardware trigger, PTP (IEEE 1588)
	(fps) (bit) (dB) (dB) (dB)

# Compliance

	GigE Vision 2.2, GenlCam, GenTL		
	ITALA View or other GigE Vision 2.x software		
	64-bit Windows 10/11		
	Ubuntu 18.04/20.04/22.04		
	EN 60068-2-27		
	EN 60068-2-6		
	EN 60068-2-64		
(years)	5		
	(years)		

# **Mechanical Specifications**

Mount		С	
Dimensions	(mm)	54 x 54 x 51.3	
Clamping system		16x M3 threaded holes (on all sides)	
Mass	(g)	200	

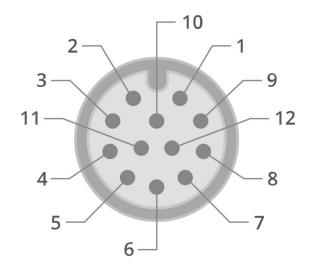
# **Environment**

Operating temperature <sup>3</sup>	(°C)	-25 - +65
Storage temperature <sup>4</sup>	(°C)	-10 - +60
Operating relative humidity	(%)	20-80, non condensing
IP rating		IP67

- <sup>1</sup> Color-model's fps are calculated using BayerRG8 pixel format
- <sup>2</sup> Measured with 24V power supply
- <sup>3</sup> Case temperature, measured on the front part of the camera body
- <sup>4</sup> Ambient temperature

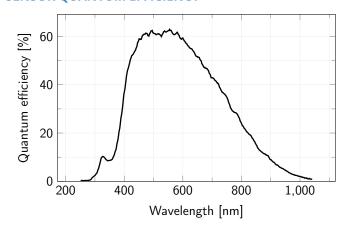


# **M12 PINOUT**

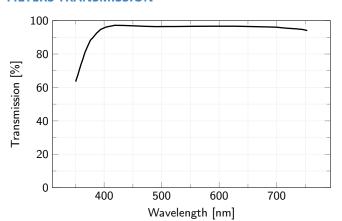


Pin	Signal
1	GND
2	+VIN
3	Opto OUT 3
4	Opto IN 0
5	Opto OUT 2
6	Opto OUT 0
7	Opto REF GND
8	RS232 RX
9	RS232 TX
10	Opto REF V+
11	Opto IN 1
12	Opto OUT 1

# **SENSOR QUANTUM EFFICIENCY**



### **FILTERS TRANSMISSION**



# **RECOMMENDED ACCESSORIES**



Opto-Engineering® offers sealed lens tubes of different diameters to be used with varying lens sizes (IPT-Series) and sealed M12 cables (CB series) to complete your vision system.

# **COMPATIBLE PRODUCTS**

Full list of compatible products available here.



A wide selection of innovative machine vision components.