

ITA89-GM-10C | DATASHEET

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







CEFE UK ROHS REASE





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

















SEQUENCER



1 GIGE

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

BURST

FAST TRIGGER MODE

DUAL **EXPOSURE**

PRECISION TIME **PROTOCOL**



















API C

SCHEDULED ACTION COMMAND

REGION OF INTEREST

BINNING AND **DECIMATION**

CHUNK DATA **OPTO** ISOLATED I/O

ENCODER

DUAL SERIAL INTERFACE

MODBUS







API C++

API C

WINDOWS

LINUX



SPECIFICATIONS

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Sensor	Sn	aciti/	"ation
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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 ²	(W)	3.9

Camera Specification

Frame rate 1 (fps) Frame rate burst (fps) Exposure time 1.5 ADC resolution (bit) Dynamic range (dB) Gain range (dB) SNR (dB) 38.484 Image buffer (MB) Binning, gamma, defective	13.1 18 1 µs - 10 s 10/12 67.0 0-48 10281340672 384
Frame rate burst (fps) Exposure time 1.5 ADC resolution (bit) Dynamic range (dB) Gain range (dB) SNR (dB) 38.484 Image buffer (MB) Image processing gamma, defective Pixel formats Mono 8/ 12p Chunk data	18 1 µs - 10 s 10/12 67.0 0-48
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ADC resolution (bit) Dynamic range (dB) Gain range (dB) SNR (dB) 38.484 Image buffer (MB) Image processing gamma, defective Pixel formats Mono 8/ 12p	10/12 67.0 0-48 40281340672
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SNR (dB) 38.484 Image buffer (MB) Image processing gamma, defective Pixel formats Mono 8/ 12p	10281340672
Image buffer (MB) Image processing Binning, gamma, defective Pixel formats Mono 8/ 12p Chunk data	
Image processing gamma, defective Pixel formats Mono 8/ Chunk data	384
Image processing gamma, defective Pixel formats Mono 8/ 12p Chunk data	
Chunk data	decimation, ROI, black level, LUT, pixel correction
	10p/ 10Packed/ /12Packed
Usor sots	yes
0361 3613	3
Timers/Counters	2/4
Free run, Synchronization hardware	

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
) 5

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

Environment

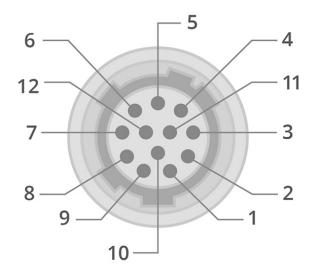
Operating temperature ³	(°C)	-25 - +65
Storage temperature ⁴	(°C)	-10 - +60
Operating relative humidity	(%)	20-80, non condensing
IP rating		IP30

- 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

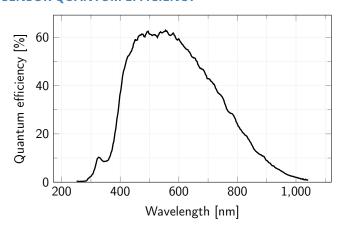


HIROSE PINOUT

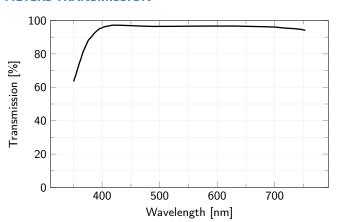


Pin	Signal
1	GND
2	+VIN
3	Opto OUT 3
4	Opto IN 0
5	Opto OUT 2
6	Opto OUT 0
7	Opto REF GND
8	RS232 RX
9	RS232 TX
10	Opto REF V+
11	Opto IN 1
12	Opto OUT 1

SENSOR QUANTUM EFFICIENCY



FILTERS TRANSMISSION



RECOMMENDED ACCESSORIES

- 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

COMPATIBLE PRODUCTS

Full list of compatible products available here.



A wide selection of innovative machine vision components.