

ITA246-GM-20C | DATASHEET

Area scan camera 24.55MP, Sony IMX540, CMOS Global shutter, 1.2", Mono, 1 GigE, POE, C mount







CEFE UK ROHS REACH





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 VOLT POWER OVER **ETHERNET**

TIME **PROTOCOL**

PRECISION 12-BIT DEPTH

RURST

FAST **TRIGGER** MODE

DUAL EXPOSURE

SCHEDULED ACTION

COMMAND



















REGION OF INTEREST

BINNING AND

DECIMATION

CHUNK DATA

OPTO DUAL SERIAL ISOLATED I/O INTERFACE

ENCODER

MODBUS

AUTO WHITE BALANCE

COLOR CORRECTION MATRIX







API C++

WINDOWS

LINUX



SPECIFICATIONS

_	_		
Sensor	Sn	acitio	cation
3611301	201		ation

Megapixel	24.55		
Resolution	5328 x 4608		
Sensor format		1.2"	
Sensor diagonal	(mm)	19.3	
Pixel size	(µm)	2.74	
Sensor model		IMX540	
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)	4

Camera Specification

	AR glass
(fps)	4.8
(fps)	9.1
	2.46 µs - 10 s
(bit)	10/12
(dB)	70.0
(dB)	0-48
(dB)	40.2
(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

Standards		GigE Vision 2.2, GenlCam, 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			

Mechanical Specifications

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

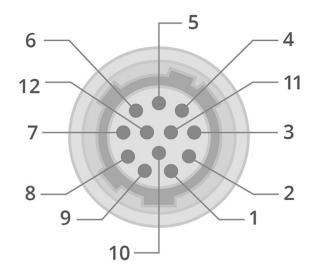
Environment

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 RGB8 pixel format
- Measured with 24V power supply
 Case temperature, measured on the front part of the camera body
- ⁴ Ambient temperature

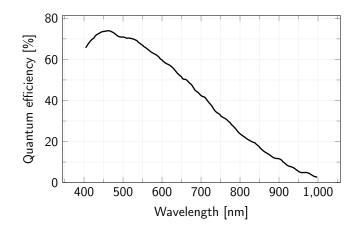


HIROSE PINOUT

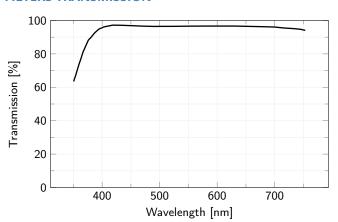


Pin	Signal
1	GND
2	+VIN
3	Opto OUT 3
4	Opto IN 0
5	Opto OUT 2
6	Opto OUT 0
7	Opto REF GND
8	RS232 RX
9	RS232 TX
10	Opto REF V+
11	Opto IN 1
12	Opto OUT 1

SENSOR QUANTUM EFFICIENCY



FILTERS TRANSMISSION



RECOMMENDED ACCESSORIES

Opto-Engineering ${\bf @}$ suggests the following accessories to power the camera:

- **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.