

COE-260-M-10GIGE-100-IR-F | DATASHEET OPTO ENGINEERING

HR Area scan camera PYTHON 25K, CMOS, Global shutter, 5120 x 5120, 26 MP, 4.5 pix, APS-H, Mono, 40 fps, 10 GigE, F mount, AR











KEY ADVANTAGES

The best cameras you can buy right now

The cameras feature the highest resolution sensors and best image quality maintaining an extremely interesting quality/price ratio.

Available in GigE, USB 3.0, CameraLink, 10GigE

GigE allows flexible connectivity, while USB3.0 offers high speed and easy installation. Camera Link guarantees maximum performance and direct access to the camera sensor while 10GigE provides the highest throughput for Ethernet connectivity.

Full GenlCam® compliant: easy to integrate

COE HR AS-X are GigEVision®, USB3 Vision® and GenICam® compliant, making software integration quick and easy.

120 MB On-board image buffer

The internal memory up to 120MB guarantees no image loss and enables useful features such as Record / Playback and sequence recordings.

COE High Resolution Area Scan-X Cameras are ideal for high resolution and high speed inspections.

SPECIFICATIONS

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Sensor	Sne	citic	atınn
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Megapixel		26
Resolution		5120 x 5120
Sensor format		APS-H
Sensor diagonal	(mm)	32.6
Pixel size	(µm)	4.5
Sensor model		PYTHON 25K
Sensor type		CMOS
Shutter		Global
Chroma		Mono

Connectivity

Connectivity		
Data connector		RJ45
Data interface		10 GigE
I/O connector		12-pin Hirose
I/O interface		1x opto-isolated input 1x opto-isolated output 1x bi-directional non-isolated 1x RS232
Serial interface		no
Econder interface		no
Power supply	(V)	9-24
Max power consumption ¹	(W)	15.5
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Measured at 12 VDC for PoE cameras, at 5 VDC for USB3.0 camera and at 24V for 10GigE camera

Camera Specification

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Filter		AR
Framerate	(fps)	40
Exposure time		45 μs - 10 s
Dynamic range	(dB)	58
Gain range	(dB)	0-15
SNR	(dB)	40
Image buffer	(MB)	1024
Pixel formats		Mono 8/10/ 10Packed/ 12/12Packed
Chunk data		yes
User sets		3
Timers/counters		0/1
Synchronization		Free run, software trigger, hardware trigger

Compliance

Standards		GigE Vision, GenICam
Client software		OECS or other GigEVision software
Operating systems		32/64-bit Windows XP/7/10
Warranty	(years)	1

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.



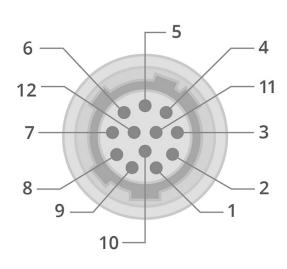
Mechanical Specifications

Mount		F
Dimensions ²	(mm)	74 x 74 x 112
Clamping system		16x M3 threaded holes (on all sides)
Mass	(g)	600

Environment

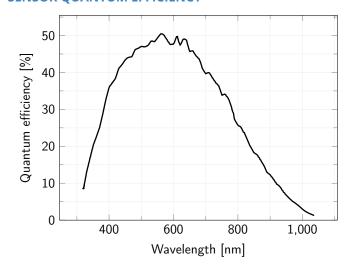
Operating temperature	(°C)	0-50
Storage temperature	(°C)	-30-+70
Operating relative humidity	(%)	20-95, non condensing
IP rating		IP40

HIROSE PINOUT



Pin	Signal	1/0	Description
1	GND	Input	Power ground
2	DC_PWR	Input	DC 12V
3	TX485+	Output	TX485+
4	TX485-	Output	TX485-
5	GND_IO	Input	Isolated ground
6	RX485+	Input	RX485+
7	RX485-	Input	RX485-
8	232_RXD	Input	232_RXD
9	232_TXD	Output	232_TXD
10	GPIO2	1/0	Can be configured as input or output
11	OPTO_OUT0	Output	Opto-isolated output
12	OPTO_IN0	Input	Opto-isolated input

SENSOR QUANTUM EFFICIENCY



RECOMMENDED ACCESSORIES

Opto-Engineering $^{\circledR}$ suggests the following accessories to power the camera:

- **CBETH003**, Ethernet cable, CAT6, industrial level, high flexible cable with screw, 5 m
- COE-12P-OPEN1-030-01, HIROSE 12-pin/Open end cable, 3 meters

COMPATIBLE PRODUCTS

Full list of compatible products available here.



A wide selection of innovative machine vision components.