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

HR Area scan camera PYTHON 25K, CMOS, Global shutter, 5121 x 5120, 26 MP, 4.5 pix, APS-H, Mono, 40 fps, 10 GigE, M58x0.75 FD 11.48 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 GenICam® 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

Sensor Specification

Megapixel		26
Resolution		5121 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

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

[1] Measured at 12 VDC for PoE cameras, at 5 VDC for USB3.0 camera and at 24V for 10GigE camera

Camera Specification

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

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Mechanical Specifications

Mount		M58x0.75 FD 11.48
Dimensions[2]	(mm)	74 x 74 x 78
Clamping system		16x M3 threaded holes (on all sides)
Mass	(g)	550

Environment

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

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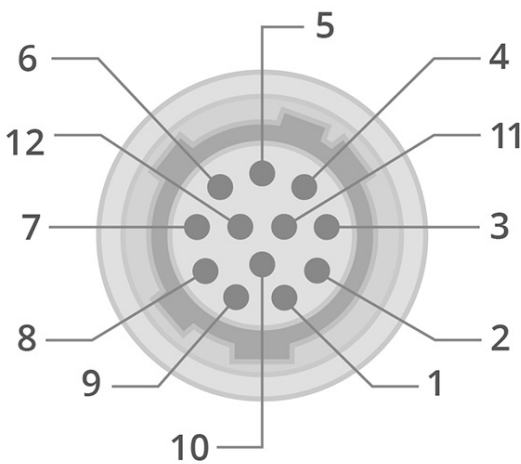
Pin	Signal	I/O	Description
1	GND	Input	Power ground
2	DC_PWR	Input	DC 12V
3	TX485+	Output	TX485+
4	TX485-	Output	TX485-
5	GND_IO	Input	Isolated ground
6	RX485+	Input	RX485+
7	RX485-	Input	RX485-
8	232_RXD	Input	232_RXD
9	232_TXD	Output	232_TXD
10	GPIO2	I/O	Can be configured as input or output
11	OPTO_OUT0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

SENSOR QUANTUM EFFICIENCY
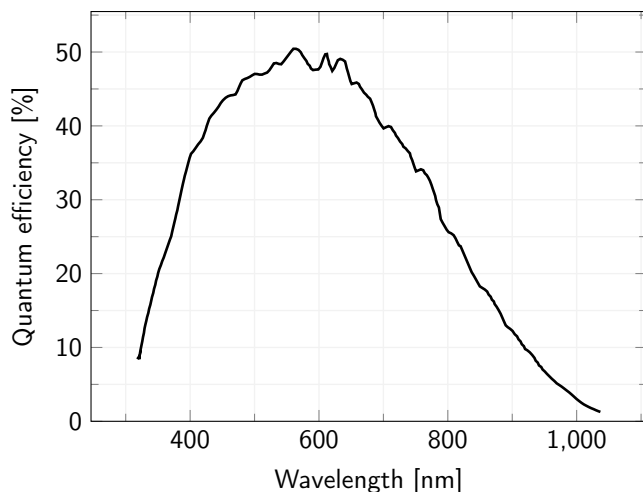
RECOMMENDED ACCESSORIES

Opto-Engineering® 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*.

OPTICS	LIGHTING	CAMERAS	SOFTWARE	ACCESSORIES

A wide selection of innovative machine vision components.