COE-200-M-POE-070-IR-C | DATASHEET

OPTO ENGINEERING

HR Area scan camera IMX183, CMOS, Rolling shutter, 5472 x 3648, 20.4 MP, 2.4 pix, 1", Mono, 5.9 fps, 1 GigE, C 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		20.4
Resolution		5472 x 3648
Sensor format		1"
Sensor diagonal	(mm)	15.8
Pixel size	(µm)	2.4
Sensor model		IMX183
Sensor type		CMOS
Shutter		Rolling
Chroma		Mono

Connectivity

Data connector		RJ45
Data interface		1 GigE
I/O connector		6-pin Hirose
I/O interface		1x opto-isolated input 1x opto-isolated output 1x bi-directional non-isolated
Serial interface		no
Econder interface		no
Power supply	(V)	12, PoE
Max power consumption[1]	(W)	3.1

[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)	5.9
Exposure time		46 µs - 2 s
Dynamic range	(dB)	65.5
Gain range	(dB)	0-20
SNR	(dB)	41.5
Image buffer	(MB)	128
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

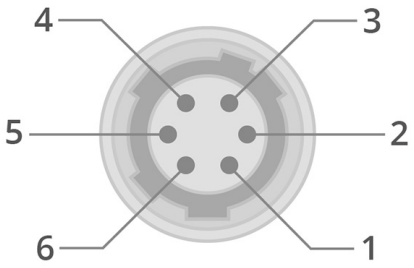
Mechanical Specifications

Mount		C
Dimensions[2]	(mm)	44 x 29 x 60
Clamping system		4x M3 threaded holes (on one side)
Mass	(g)	100

Environment

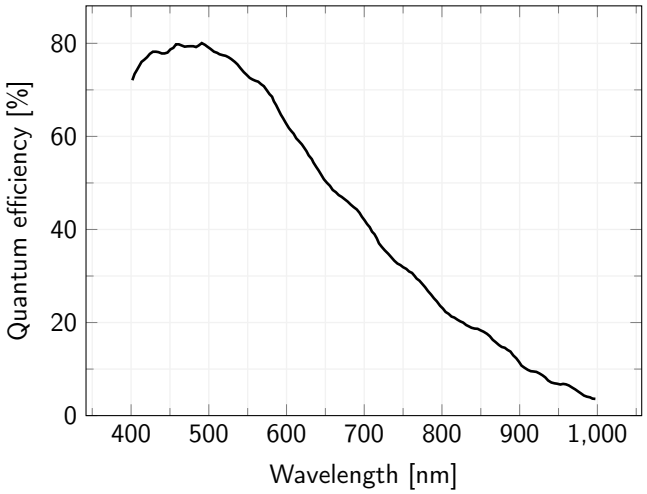
Operating temperature	(°C)	0-50
Storage temperature	(°C)	-30-+70
Operating relative humidity	(%)	20-80, non condensing
IP rating		IP30

HIROSE PINOUT



Pin	Signal	I/O	Description
1	12V	Input	DC 12V
2	Opt-Iso In	Input	Opto-isolated input
3	GPIO	I/O	Can be configured as input or output
4	Opt-Iso Out	Output	Opto-isolated output
5	I/O Ground	Input	Opto-isolated I/O grounding
6	GND	Input	Power and GPIO grounding

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-6P-OPEN1-030-01**, HIROSE 6-pin/Open end cable, 3 meters
- **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.