

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

HR Area scan camera IMX183, CMOS, Rolling shutter, 5472 x 3648, 20.4 MP, 2.4 pix, 1", Color, 5.9 fps, 1 GigE, C mount, IR cut

#### **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		Color

## 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 <sup>1</sup>	(W)	3.5
<sup>1</sup> Measured at 12 VDC for PoE cameras, at 5 VDC for USB3.0 camera and a 24V for 10GigE camera		

Camera Specificatio	n	
Filter		IR cut
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 8/10/12, RGB8, Bayer GB 8/10/10Packed/12/12Packed, YUV 422 Packed, YUV422_YUYV_Packed
Chunk data		yes
User sets		3
Timers/counters		0/1
Synchronization		Free run, software trigger, hardware trigger
Compliance		
Standards		GigE Vision, GenlCam
Client software		OECS or other GigEVision software
Operating systems		32/64-bit Windows XP/7/10
Warranty	(years)	1

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## Comore Crosification



# **Mechanical Specifications**

Mount		С
Dimensions <sup>2</sup>	(mm)	44 x 29 x 60
Clamping system		4x M3 threaded holes (on one side)
Mass	(g)	100

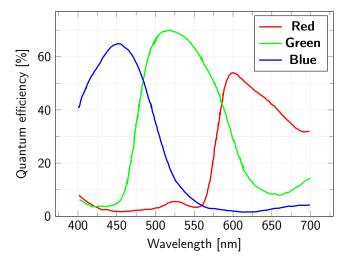
### **HIROSE PINOUT**

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

	4	3
5		2
5		
	6	-1

Pin	Signal	I/O	Description
1	12V	Input	DC 12V
2	Opt-lso ln	Input	Opto-isolated input
3	GPIO	I/O	Can be configured as input or output
4	Opt-lso 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**

 $\mathsf{Opto}\text{-}\mathsf{Engineering}^{\texttt{®}}$  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.

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