

COE-4K-C-POE-010-J | DATASHEET

4K Line scan camera, 4096 x 2, 7 µm pix, CMOS, GigE, Color, M42x1 FD 12 mm



KEY ADVANTAGES

High quality 4K CMOS sensors Reliable GigE interface with PoE support Gen-I-Cam compliance for easy integration Single-line and two-line TDI acquisition



SPECIFICATIONS

Sensor Specification

Resolution		4096 x 2	
Sensor format		4K	
Line length	(mm)	28.7	
Pixel size	(µm)	7	
Sensor model		GL0402	
Image mode		-	
Sensor type		CMOS	
Shutter		Global	
Chroma		Color	

Camera Specification

Filter		AR
Line rate	(kHz)	19
Max line rate ¹	(kHz)	80
Exposure time		5 µs - 10 ms
Dynamic range	(dB)	65.6
Gain range	(dB)	0-10
SNR	(dB)	40
Image buffer	(MB)	1024
		Mono 8/10/12 RGB8 BGR8

	WUTU 0/ TU/ TZ, KGDO, DGKO,
	Bayer RG
Pixel formats	8/10/10Packed/12/12Packed,
	YUV 422Packed,
	YUV422_YUYVPacked
Chunk data	yes
User sets	3
Timers/Counters	0/1
Synchronization	Free run, software trigger, hardware trigger

The COE LS-X series features 4K line scan cameras with high-end CMOS sensors to provide excellent image quality and superior performance.

Connectivity

connectivity		
Data connector		RJ45
Data interface		1 GigE
I/O connector		12-pin Hirose
I/O interface		4x configurable input and output, supports single-end/differential
Serial interface		RS-422, RS-644, TTL&LVTTL
Enconder interface		yes
Power supply	(V)	12-24, PoE
Max power consumption ²	(W)	6.6

Compliance

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

Mechanical Specifications

Mount		M42x1 FD 12
Dimensions	(mm)	62 x 62 x 41
Clamping system		12x M4 threaded holes (on all sides)
Mass	(g)	280
¹ Using image compression mode		

² Measured at 12 VDC

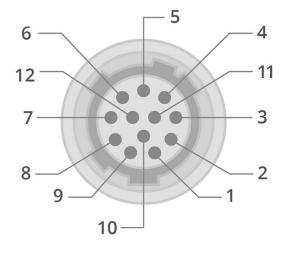
All product specifications and data are subject to change without notice to improve reliability, functionality, design or other. Photos and pictures are for illustration purposes only. Data are reported by design, actual lens performance may vary due to manufacturing tolerances.



Environment

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

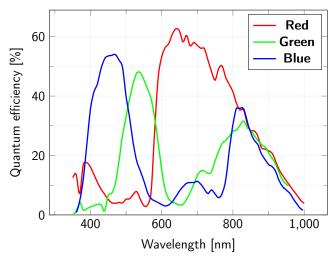
HIROSE PINOUT



Pin Signal I/O Signal source Description GND 1 Power supply ground _ 2 DC PWR DC power supply positive _ 3 LINE0 P Line 0+ Differential input/output IO 0+ Line 0-Differential input/output IO 0+ 4 LINE0_N 5 GND -Power supply ground 6 LINE3_P Line 3+ Differential input/output IO 3+ 7 LINE3 N Line 3-Differential input/output IO 3-8 LINE4_P Line 4+ Differential input/output IO 4+ 9 Line 1+ LINE1 P Differential input/output IO 1+ 10 LINE1_N Line 1-Differential input/output IO 1-11 DC PWR -DC power supply positive LINE4 N Line 4-Differential input/output IO 4-12

Device side

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
- **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.

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