COGNEX

COGNEX INDUSTRIAL CAMERAS

> ❯ Trusted Cognex® brand
>
> ❯ Designed for Cognex Vision Software
>
> ❯ GigE Vision® and Camera Link® standard

The Cognex family of digital industrial cameras are designed for easy integration with our industry-leading Cognex Vision Software products. These small, lightweight cameras can address a wide variety of applications.

Cognex stands behind its reputation as being the leader in the machine vision market and now you can too. Show your true colors—Cognex's signature black and yellow that is—and show your customers that you have the leading machine vision technology integrated into your system.

Integration with Cognex Vision Software provides access to a comprehensive library of tools for meeting all of your machine vision needs.

GigE Vision and Camera Link options

Need a value solution? Require high-performance to meet the most demanding machine vision needs? Cognex offers industrial cameras to address the widest variety of applications.

GigE Vision

GigE Vision is a global camera interface standard developed using the Gigabit Ethernet communication protocol. GigE Vision allows for fast image transfer using low cost standard cables over very long lengths. Cognex GigE Vision cameras offer robust performance at an affordable price in a compact form factor.

- Area Scan
- 1.3–29 MP resolution
- Global and rolling shutters
- Small footprint
- Precise sensor alignment
- I/O flexibility with minimum delay and jitter for applications requiring exact timing
- 3-year warranty

Camera Link

Cognex's Camera Link industrial camera is ideally suited for high-resolution and high-speed machine vision applications that require very fast processing of large amounts of image data, such as fine defect inspection, precision alignment and measurement, and continuous process inspection. Camera Link is the most broadly accepted high-bandwidth solution in factory automation. Cognex uses the next generation CMOS technology in our Camera Link camera. The slim industrial housing is ideally suited for multi-camera systems.

- Line scan
- 4k resolution
- F-mount
- Power over Camera Link (PoCL)
- Digital I/O camera control signals (max. 4)
- 3-year warranty

Cognex Designer makes it faster to build complete vision applications and allows developers to more easily take full advantage of the powerful VisionPro tool library. Learn more at www.cognex.com/products/machine-vision/vision-software/cognex-designer-software

VisionPro software makes it faster than ever to create and deploy solutions for the most challenging machine vision applications. Learn more at www.cognex.com/visionpro

The most popular and standard proven data interfaces in the vision market means you benefit from GigE Vision market leadership, easy multi-camera setups and 100-meter cable length.

The advantages include:

▪ One cable solutions: Gigabit Ethernet with PoE
▪ Broad sensor portfolio: CMOS and CCD

Model Comparison

AREA SCAN

Model Number	Body Type	Sensor Tech.	Reso-lution	Frame Rate	Sensor Type	Sensor	Sensor Size	Power Consumption	Lens Mount	Color / Mono
ROLLING SHUTTER										
CAM-CIC-5MR/5000R	A	GigE	5MP	14 fps	CMOS	Aptina MT9P031	1/2.5"	2.5 W / 2.2 W	C	C, M
CAM-CIC-10MR	A	GigE	10MP	10 fps	CMOS	Aptina MT9J003	1/2.3"	3.3 W / 3.5 W	C	C, M
CAM-CIC-12MR	A	GigE	12MP	8 fps	CMOS	Sony IMX226	1/1.7"	2.5 W / 2.9 W	C	C,M
GLOBAL SHUTTER										
CAM-CIC-1300	A	GigE	1.3MP	60 fps	CMOS	e2v EV76C560	1/1.8"	2.4 W / 2.0 W	C	C, M
CAM-CIC-2000-60	A	GigE	2MP	60 fps	CMOS	e2v EV76C570	1/1.8"	2.1 W / 2.5 W	C	M
CAM-CIC-4000	A	GigE	4MP	25 fps	CMOS	CMOSIS CMV4000	1"	3.4 W / 2.9 W	C	C, M
CAM-CIC-2900-4	G	GigE	29MP	4 fps	CCD	Truesense KAI-29050	35 mm	6.6 W @ 12VDC	F	M

LINE SCAN

Model Number	Body Type	Sensor Tech.	Reso-lution	Frame Rate	Sensor Type	Sensor	Sensor Size	Power Consumption	Lens Mount	Color / Mono
CAM-CIC-4KL-24	R	GigE	4K	24kHz	CMOS	Awaiba DR-4K-7		4 W	F	M
CAM-CIC-4KL-80	R	Camera Link	4K	80kHz	CMOS	Awaiba DR-4K-7		4 W	F	M

AREA SCAN

Models	CIC-1300	CIC-2000	CIC-4000	CIC-2900
Shutter	Global			
Pixel Bit Depth	12 bits			14 bits
Synchronization	hardware trigger; free-run; Ethernet connection			trigger ready, input, exposing, readout, imaging, strobe, GPO
Exposure Control	programmable via the camera API			auto exposure
Digital I/O	1 input; 1 output			1 input, 2 outputs
Power Requirements	PoE or 12-24 VDC			PoE or 7-25 VDC
Form Factor (L x W x H)	Body Type A: 42 mm x 29 mm x 29 mm			Body Type G: 96 mm × 66 mm × 53.3 mm
Housing temperature	up to 50 °C			-20 °C to +50 °C
Weight	90g			
Compliance	CE, RoHS, GenICam, GigE Vision, IP30, UL, FCC, IEEE 802.3af (PoE)			CE, RoHs, FCC, ICES-003, IEEE 802.3af (PoE)

Models	CIC-5MR	CIC-10MR	CIC-12MR
Shutter	Rolling		
Pixel Bit Depth	12 bits		10 or 12 bits
Synchronization	hardware trigger; free-run; Ethernet connection		software trigger, hardware trigger, free-run
Exposure Control	programmable via the camera API; hardware trigger	programmable via the camera API	
Digital I/O	1 input; 1 output		1 input, 1 output, 1 general purpose
Power Requirements	PoE or 12-24 VDC		
Form Factor (L x W x H)	Body Type A: 42 mm x 29 mm x 29 mm		
Housing temperature	up to 50 °C		
Weight	90g		
Compliance	CE, RoHS, GenICam, GigE Vision, IP30, UL, FCC, IEEE 802.3af (PoE)		

Body Type A
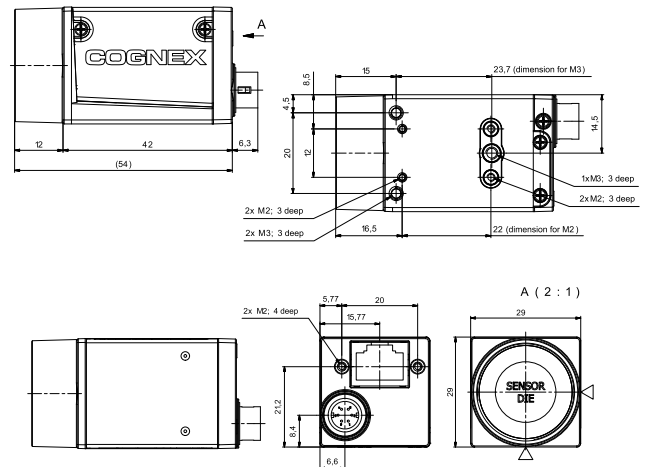
Body Type G
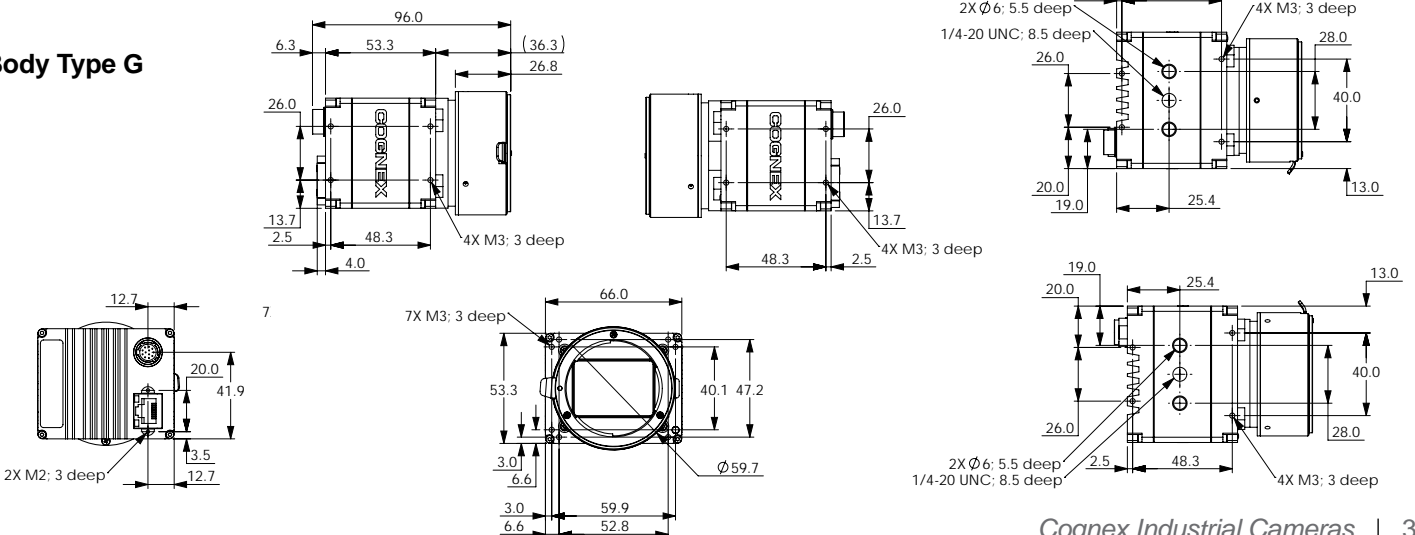
Available in two models, GigE Vision and Camera Link, the CIC-4KL provides high performance thanks to the newest CMOS technology. Its compact, slim, industrial housing is ideally suited for multi-camera systems with many line scan cameras installed next to each other. Based on their standard width of 56 mm, they can easily replace older line scan camera models.

The advantages include:

- 4k resolution
- Max. line rates of 26 kHz (GigE Vision) and 80 kHz (Camera Link)
- PoCL functionality (Power over Camera Link)
- Outstanding price/performance ratio
- Fully quality tested and calibrated for consistently high performance and reliability

LINE SCAN

Models	CIC-4KL-24	CIC-4KL-80
Interface	GigE	Camera Link
Pixel Bit Depth	8/12 bits	8/10/12 bits
Synchronization	software trigger, hardware trigger, free-run	
Exposure Control	trigger width or timed	
Digital I/O	3 input, 2 output	
Power Requirements	12–24 VDC	PoCL or 12–24 VDC
Form Factor (L x W x H)	Body Type R: 36 mm x 56 mm x 62 mm	
Housing temperature	up to 50 °C	
Weight	240g	210g
Compliance	CE, RoHS, GenICam, GigE Vision, IP30, UL, FCC	CE, RoHS, GenICam, IP30, UL, FCC, Camera Link

Body Type R: GigE
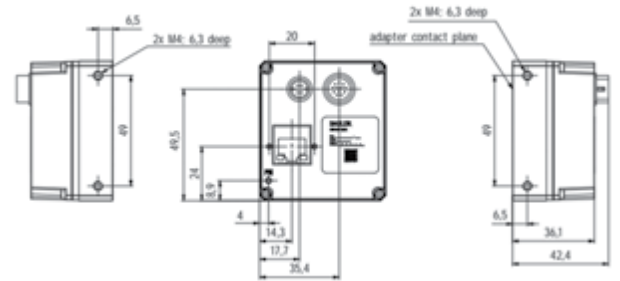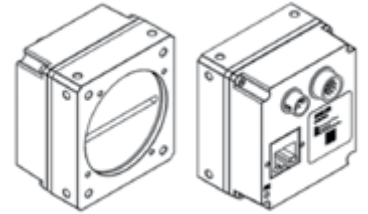
Body Type R: Camera Link
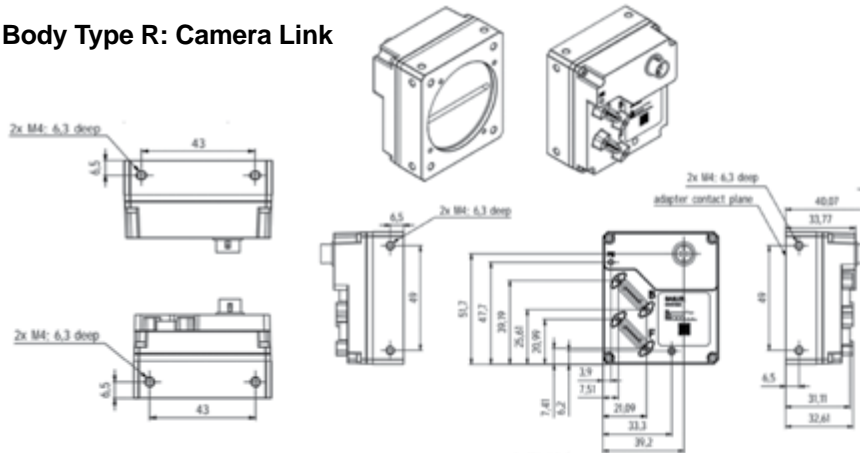
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