COGNEX

COGNEX INDUSTRIAL CAMERAS

- > Trusted Cognex® brand
- Designed for Cognex Vision Software
- GigE Vision® 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

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 and line scan
- 1.3–31 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

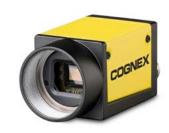
Cognex Designer makes it faster to build complete vision applications and allows developers to more easily take full advantage of the powerful VisionPro tool library. Learn more at https://www.cognex.com/products/machine-vision/vision-software/cognex-designer-software/

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
- Latest CMOS sensors



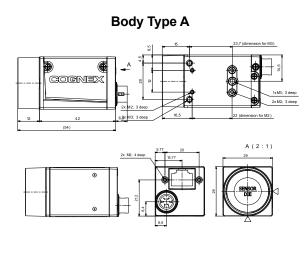
Model Comparison

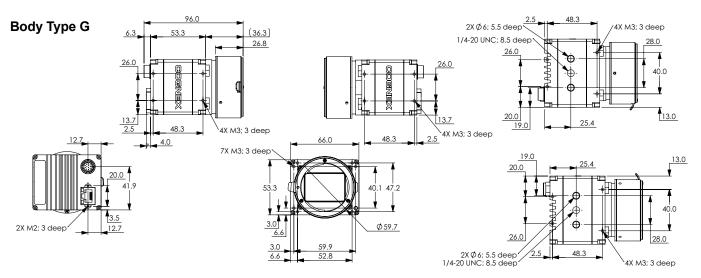
AREA SCAN									
Model Number	Body Type	Reso- lution	Frame Rate	Sensor Type	Sensor	Sensor Size	Power Consumption	Lens Mount	Color / Mono
ROLLING SHUTT	ER								
CAM-CIC-5MR/5000R	Α	5MP	14 fps	CMOS	Aptina MT9P031	1/2.5"	2.5 W / 2.2 W	С	C, M
CAM-CIC-10MR	Α	10MP	10 fps	CMOS	Aptina MT9J003	1/2.3"	3.3 W / 3.5 W	С	C, M
CAM-CIC-12MR	Α	12MP	8 fps	CMOS	Sony IMX226	1/1.7"	2.5 W / 2.9 W	С	C,M
GLOBAL SHUTTE	GLOBAL SHUTTER								
CAM-CIC-1300	Α	1.3MP	60 fps	CMOS	e2v EV76C560	1/1.8"	2.4 W / 2.0 W	С	C, M
CAM-CIC-2000-60	Α	2MP	60 fps	CMOS	e2v EV76C570	1/1.8"	2.1 W / 2.5 W	С	M
CAM-CIC-4000	Α	4MP	25 fps	CMOS	CMOSIS CMV4000	1"	3.4 W / 2.9 W	С	C, M
CAM-CIC-5000-20	Α	5MP	24 fps	CMOS	Sony IMX264	2/3"	2.4 W / 2.8 W	С	C,M
CAM-CIC-3100	G	31MP	3.82 fps	CMOS	Sony IMX342	APS-C	5.4W / 6.7 W	F	C,M
LINE COAN									

LINE SUAN									
Model Number	Body Type	Reso- lution	Frame Rate	Sensor Type	Sensor	Sensor Size	Power Consumption	Lens Mount	Color / Mono
CAM-CIC-4KL-24	R	4K	24kHz	CMOS	Awaiba DR-4K-7		4 W	F	М

AREA SCAN					
Models	CIC-1300	CIC-2000	CIC-4000	CIC-5000-20	CIC-3100
Shutter			Global		
Pixel Bit Depth		12 bits		10 or 12 bits	12 bits
Synchronization	hardware	trigger over Ethernet via Action Commands			
Exposure Control	pro	auto exposure			
Digital I/O		TTL: 1 input, 2 outputs Opto-isolated: 1 input, 2 outputs RS232: 1			
Power Requirements		PoE or 7-25 VDC			
Form Factor (L x W x H)		Body Type G: 96 mm x 66 mm x 53.3 mm			
Housing Temperature		-20 °C to +50 °C			
Weight		372g			
Compliance	CE, RoHS, GenlCam, GigE Vision, IP30, UL, FCC, IEEE 802.3af (PoE) CE, RoHs, FCC				CE, RoHs, FCC

Models	CIC-5000R/ CIC-5MR	CIC-10MR	CIC-12MR			
Shutter	Rolling					
Pixel Bit Depth	12 bits		10 or 12 bits			
Synchronization	hardware trig Ethernet o	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 VDC	PoE or 12-24 VCD				
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, GenlCam, GigE Vision, IP30, UL, FCC, IEEE 802.3af (PoE)					



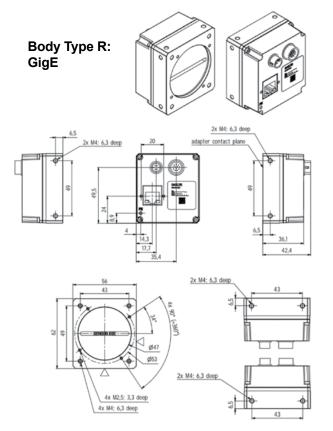


The CIC-4KL provides high performance thanks to CMOS technology. Its compact, slim, industrial housing is ideally suited for multi-camera systems with many line scan cameras installed next to each other. Based on their standard width of 56 mm, they can easily replace older line scan camera models.

The advantages include:

- 4k resolution
- Max. line rates of 26 kHz
- Outstanding price/performance ratio
- Fully quality tested and calibrated for consistently high performance and reliability

LINE SCAN				
Models	CIC-4KL-24			
Pixel Bit Depth	8/12 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			
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			
Compliance	CE, RoHS, GenlCam, GigE Vision, IP30, UL, FCC			





Companies around the world rely on Cognex vision and barcode reading solutions to optimize quality, drive down costs and control traceability.

One Vision Drive Natick, MA 01760 USA Corporate Headquarters

Regional Sales Offices

Americas North America Brazil Mexico

+1 844-999-2469 +55 (11) 2626 7301 +800 733 4116

Europe

Austria +49 721 958 8052 +32 289 370 75 Belgium +33 1 7654 9318 France +49 721 958 8052 Germany

Hungary Ireland Italy Netherlands Poland Spain Sweden Switzerland

+36 800 80291 +44 121 29 65 163 +39 02 3057 8196 +31 207 941 398 +48 717 121 086 +34 93 299 28 14 +46 21 14 55 88 +41 445 788 877 +90 216 900 1696 United Kingdom +44 121 29 65 163

Asia China India Japan Korea Malaysia Singapore Taiwan Thailand

Vietnam

+84 2444 583358

© Copyright 2020, Cognex Corporation. All information in this document is subject to change without notice. All Rights Reserved. Cognex and VisionPro are registered trademarks and Cognex Designer and the Cognex logo are trademarks of Cognex Corporation. All other trademarks are property of their respective owners. Lit. No. CICDS-04-2020