



## picoCam

Ultra-compact, industrial streaming cameras with GigE interface

2D MACHINE VISION

**SICK**  
Sensor Intelligence.



### Technical data overview

<b>Sensor</b>	CMOS monochrome CMOS Color CMOS monochrome NIR (depending on type)
<b>Sensor resolution</b>	1,280 px x 1,024 px (1.31 Mpixel, 5:4, SXGA) 1,600 px x 1,200 px (1.92 Mpixel, 4:3, UXGA) 1,936 px x 1,216 px (2.35 Mpixel, 16:10, 2 MP) 2,048 px x 2,048 px (4.19 Mpixel, 1:1, 4 MP)
<b>Light source</b>	External illumination To be ordered separately as accessories
<b>Lens</b>	C-mount
<b>Optical format</b>	1/1.8" 1/1.2" 1" (depending on type)
<b>Ethernet</b>	✓, UDP/IP
<b>Configuration software</b>	I2D Software Suite
<b>Dimensions</b>	40.5 mm x 29 mm x 29 mm

### Product description

The picoCam streaming camera family is ideally suited to applications where space is restricted. So that it can be used in industrial environments, the picoCam has a screw-fit RJ45 GigE interface – the standard for industrial image processing – as well as industry-grade plug connectors for the voltage supply and trigger signals. As an alternative, it is also possible to operate it with just one cable measuring up to 100 m in length using Power over Ethernet (PoE). The picoCam is available with 1, 2, or 4 megapixel resolution and in color, monochrome, or NIR (optional) variants. CMOS image sensors use global shutter technology and enable multiple image sections (AOI). Image recording and transmission are decoupled in the internal 60 MB memory bank and multi-camera applications are therefore supported.

### At a glance

- Ultra-compact housing
- Power over Ethernet (PoE)
- Wide-range voltage supply 12 V DC ... 24 V DC
- Screw-fit RJ45 GigE interface
- Screw-fit Hirose plug connector for the voltage supply and digital inputs and outputs
- Color, monochrome, and NIR variants
- Connection for C mount lenses

### Your benefits

- The picoCam family is ideal for use on the Sensor Integration Machine (SIM), to support complex image processing tasks
- Ideal for multi-camera applications, e.g., several picoCams on the SIM
- Simple operation using just one connecting cable thanks to PoE
- Reliable, even in very tight spaces
- Intuitive operation via the I2D Software Suite for Windows from SICK
- Simple plug and play installation on the SIM thanks to pre-assembled cables
- Wide range of C mount lenses available

### Fields of application

- Single or multi-camera systems in conjunction with the Sensor Integration Machine (SIM)
- Automated image processing applications in the automotive, robotics, electronics, solar, and food and beverage industries, for example, for quality inspection, traceability, and object detection

## Ordering information

Other models and accessories → [www.sick.com/picoCam](http://www.sick.com/picoCam)

- **Internal lighting:** To be ordered separately as accessories
- **Lens:** To be ordered separately as accessories, C-mount

Products by tasks	Sensor resolution	Sensor	Sensor used	Type	Part no.
Presence inspection, quality inspection, Color inspection, measuring, 2D, positioning	1,280 px x 1,024 px (1.31 Mpixel)	CMOS Color	e2V EV76C560ACT	I2D301C-RCA11	6060389
	1,600 px x 1,200 px (1.92 Mpixel)	CMOS Color	e2V EV76C570ACT	I2D302C-RCA11	6060392
	1,936 px x 1,216 px (2.35 Mpixel)	CMOS Color	Sony IMX249LQJ-C	I2D303C-RCA11	6060395
	2,048 px x 2,048 px (4.19 Mpixel)	CMOS Color	CMOSIS CMV4000-3E5C1PP	I2D304C-RCA11	6060397
Presence inspection, quality inspection, measuring, 2D, positioning	1,280 px x 1,024 px (1.31 Mpixel)	CMOS monochrome	e2V EV76C560ABT	I2D301M-RCA11	6060388
		CMOS monochrome NIR	e2V EV76C661ABT	I2D301N-RCA11	6060390
	1,600 px x 1,200 px (1.92 Mpixel)	CMOS monochrome	e2V EV76C570ABT	I2D302M-RCA11	6060391
	1,936 px x 1,216 px (2.35 Mpixel)	CMOS monochrome	Sony IMX249LLJ-C	I2D303M-RCA11	6060394
	2,048 px x 2,048 px (4.19 Mpixel)	CMOS monochrome	CMOSIS CMV4000-3E5M1PP	I2D304M-RCA11	6060396
		CMOS monochrome NIR	CMOSIS CMV4000-3E12M1PP	I2D304N-RCA11	6060398

## SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

## WORLDWIDE PRESENCE:

Contacts and other locations –[www.sick.com](http://www.sick.com)