



# I2D304M-RCA11

picoCam

2D MACHINE VISION

**SICK**  
Sensor Intelligence.



### Ordering information

Type	Part no.
I2D304M-RCA11	6060396

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



### Detailed technical data

#### Features

<b>Task</b>	Presence inspection Quality inspection Measuring, 2D Positioning
<b>Technology</b>	2D snapshot
<b>Product category</b>	Streaming, flexible
<b>Sensor</b>	CMOS monochrome
<b>Sensor used</b>	CMOSIS CMV4000-3E5M1PP
<b>Shutter technology</b>	Global-Shutter
<b>Illumination</b>	To be ordered separately as accessories
<b>Further functions</b>	Overlap trigger, dual exposure, sensor source gain, Multi area of interest, Subsampling
<b>Lens</b>	C-mount
	Optical format 1"
	Note To be ordered separately as accessories

#### Mechanics/electronics

<b>Connection type</b>	Hirose 6-pin male connector (voltage supply, 1 digital input, 1 digital output)
<b>Supply voltage</b>	12 V ... 24 V <sup>1)</sup>
<b>Power consumption</b>	≤ 2.6 W
<b>Enclosure rating</b>	IP30
<b>Weight</b>	61 g
<b>Dimensions (L x W x H)</b>	40.5 mm x 29 mm x 29 mm

<sup>1)</sup> Or PoE.

#### Performance

<b>Bit depth</b>	12 bit
<b>Sensor resolution</b>	2,048 px x 2,048 px (4.19 Mpixel, 1:1, 4 MP)
<b>Sensor size</b>	11.264 mm x 11.264 mm
<b>Scan/frame rate</b>	19 fps
<b>Memory</b>	60 MB

<b>Exposure time</b>	0.054 ms ... 500 ms
<b>Pixel size</b>	5.5 µm

## Interfaces

<b>Ethernet</b>	✓, UDP/IP
Data transmission rate	1,000 Mbit/s
<b>Configuration software</b>	I2D Software Suite

## Ambient data

<b>Shock load</b>	80 g, EN 60068-2-27 (1995-03), EN 60068-2-29 (1995-03)
<b>Vibration load</b>	10 g, 30 Hz ... 500 Hz, EN 60068-2-6 (1996-05)
<b>Ambient operating temperature</b>	0 °C ... +40 °C <sup>1)</sup>
<b>Storage temperature</b>	-20 °C ... +60 °C <sup>1)</sup>

<sup>1)</sup> Relative humidity: 20% ... 80%.

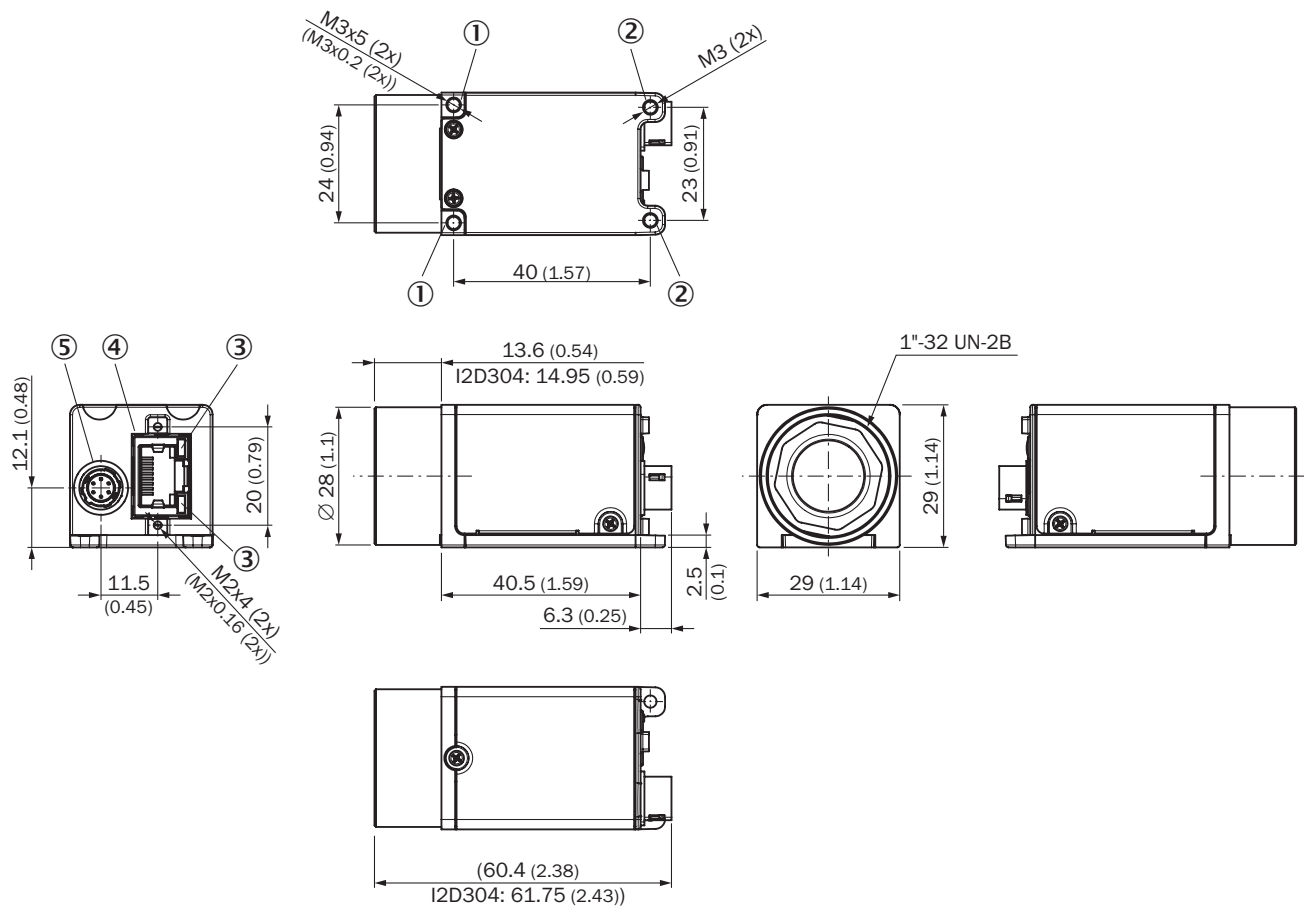
## General notes

<b>Note</b>	Not free of paint wetting impairment substances.
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## Classifications

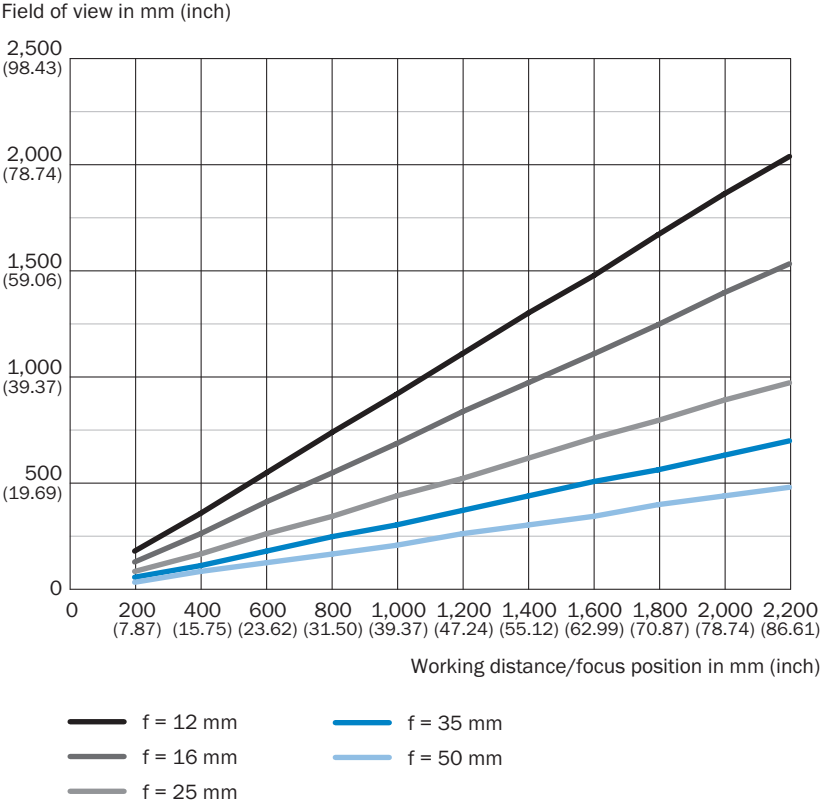
<b>ECLASS 5.0</b>	27310205
<b>ECLASS 5.1.4</b>	27310205
<b>ECLASS 6.0</b>	27310205
<b>ECLASS 6.2</b>	27310205
<b>ECLASS 7.0</b>	27310205
<b>ECLASS 8.0</b>	27310205
<b>ECLASS 8.1</b>	27310205
<b>ECLASS 9.0</b>	27310205
<b>ECLASS 10.0</b>	27310205
<b>ECLASS 11.0</b>	27310205
<b>ECLASS 12.0</b>	27310205
<b>ETIM 5.0</b>	EC001820
<b>ETIM 6.0</b>	EC001820
<b>ETIM 7.0</b>	EC001820
<b>ETIM 8.0</b>	EC001820
<b>UNSPSC 16.0901</b>	43211731

### Dimensional drawing (Dimensions in mm (inch))

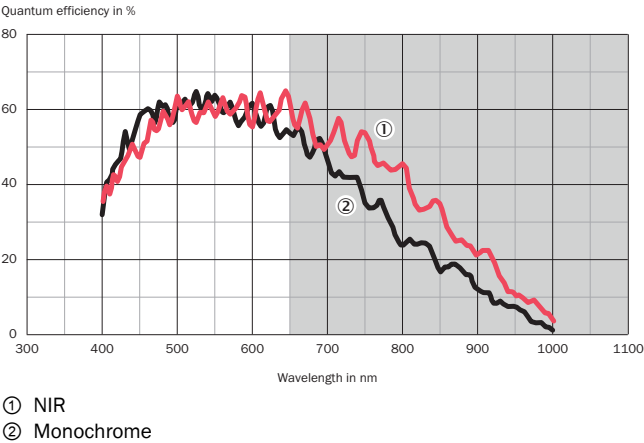


- ① Blind hole thread M3, 5 mm deep (12 x), for mounting
- ② Fixing hole M3 (2 x), for mounting
- ③ LED for status display (2 x)
- ④ Gigabit Ethernet port, RJ45, 8-pin
- ⑤ Power I/O connection, male connector, M12, 6-pin, Hirose

Field of view





Spectral range



### Recommended accessories

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

	Brief description	Type	Part no.
Others			
	<ul style="list-style-type: none"> <li>• <b>Connection type head A:</b> Male connector, RJ45</li> <li>• <b>Connection type head B:</b> Male connector, RJ45</li> <li>• <b>Signal type:</b> Ethernet</li> <li>• <b>Cable:</b> 3 m, CAT5, CAT5e</li> <li>• <b>Description:</b> Ethernet, Highly flexible, unshielded</li> </ul>	SSL-080J-G03MACR	6037974
		Connecting cable (female connector – open)	6061064

### Recommended services

Additional services → [www.sick.com/picoCam](http://www.sick.com/picoCam)

	Type	Part no.
Extended warranty		
<ul style="list-style-type: none"> <li>• <b>Product area:</b> Identification solutions, machine vision, Detection and ranging solutions, safety camera sensors, Safety laser scanners, Safety radar sensors</li> <li>• <b>Range of services:</b> The services correspond to the scope of the statutory manufacturer warranty (SICK general terms of delivery).</li> <li>• <b>Duration:</b> Five-year warranty from delivery date.</li> </ul>	Extended warranty for a total of five years from delivery date	1680671

## 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)