



# I2D301M-RCA11

picoCam

2D MACHINE VISION

**SICK**  
Sensor Intelligence.



### Ordering information

Type	part no.
I2D301M-RCA11	6060388

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

### Detailed technical data

#### Features

<b>Technology</b>	2D snapshot
<b>Product category</b>	Streaming, flexible
<b>Sensor</b>	CMOS monochrome
<b>Sensor used</b>	e2V EV76C560ABT
<b>Shutter technology</b>	Global-Shutter Rolling-Shutter Global-Start-Shutter
<b>Illumination</b>	To be ordered separately as accessories
<b>Further functions</b>	Line mode, Scaler, Sequenzer, log mode, Hot pixel correction on the sensor, Fine illumination grid, Multi area of interest, Binning, Subsampling
<b>Lens</b>	C-mount
Optical format	1/1.8"
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>	≤ 2.9 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>	1,280 px x 1,024 px (1.31 Mpixel, 5:4, SXGA)
<b>Sensor size</b>	6.784 mm x 5.427 mm
<b>Scan/frame rate</b>	50 fps, in freerun mode 48 fps, in trigger mode
<b>Memory</b>	60 MB
<b>Exposure time</b>	0.009 ms ... 2,000 ms
<b>Pixel size</b>	5.3 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%.

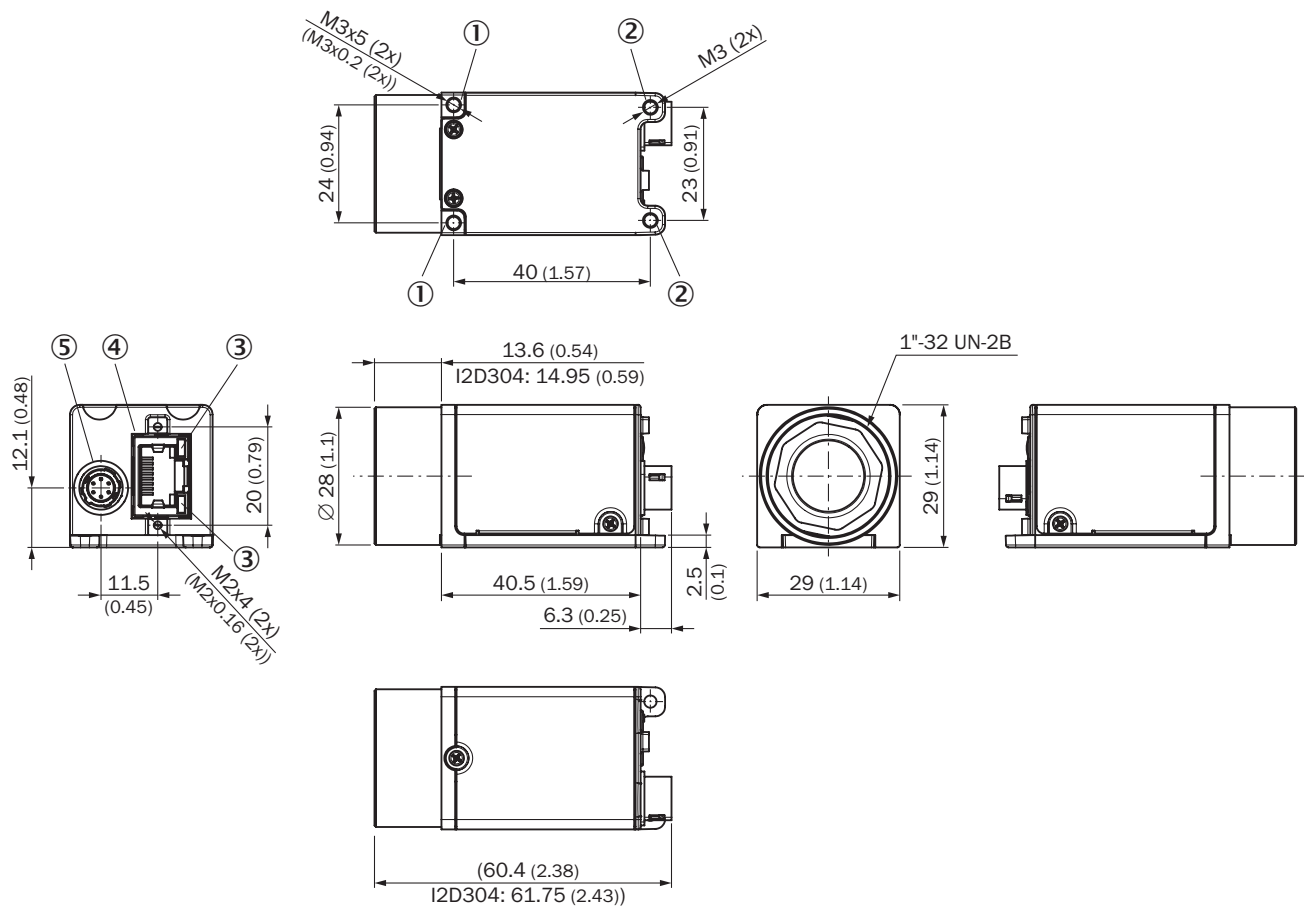
## General notes

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

## 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

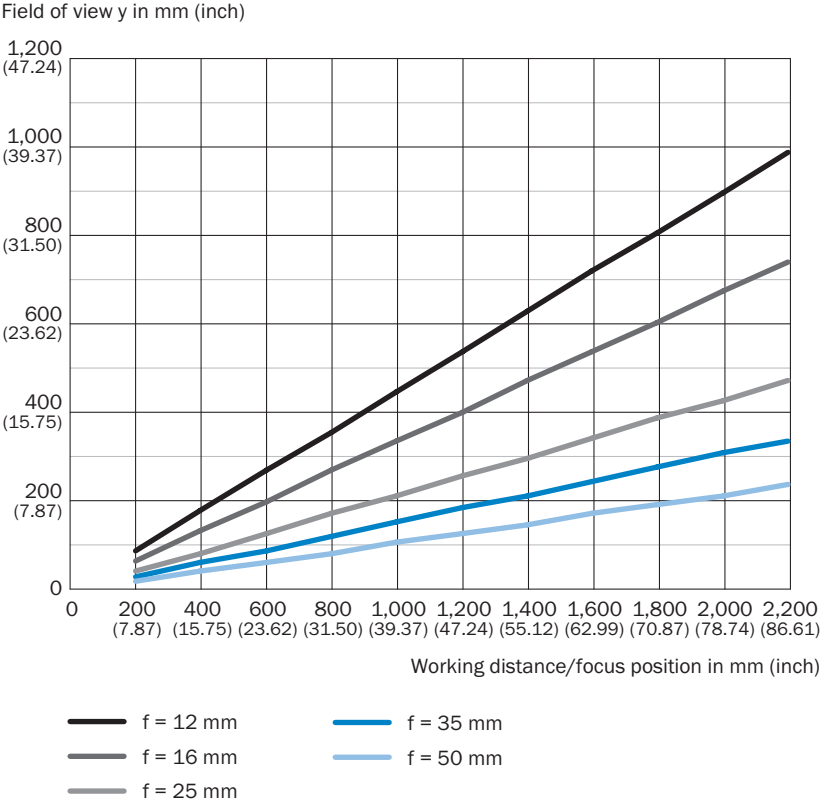
### Dimensional drawing



Dimensions in mm (inch)

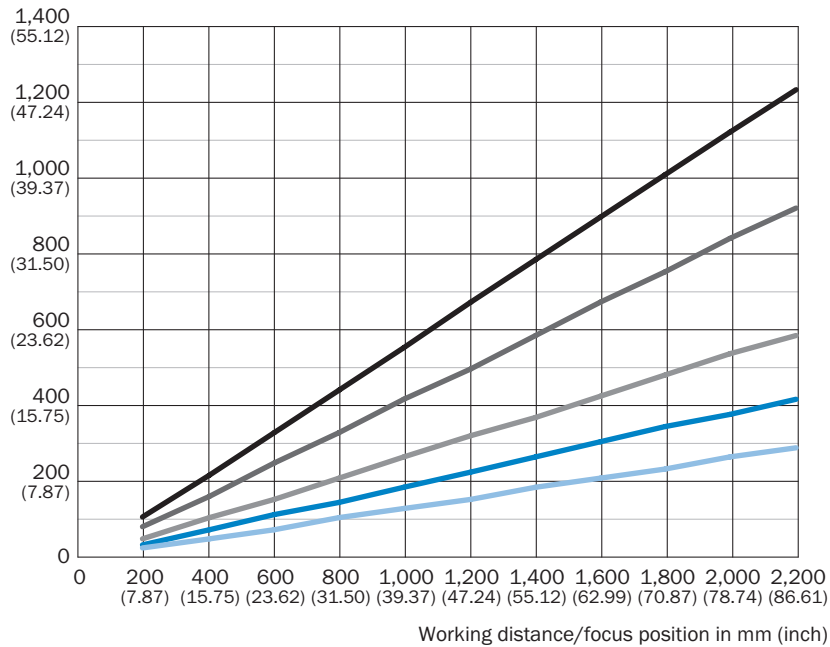
- ① blind hole thread M3, 5 mm deep (12 x), for mounting
- ② Fixing hole M3 (2 x), for mounting
- ③ LED for status display (2 x)
- ④ Gigabit Ethernet port, RJ45, 8-pin
- ⑤ Power I/O connection, male connector, M12, 6-pin, Hirose

Field of view



### Field of view

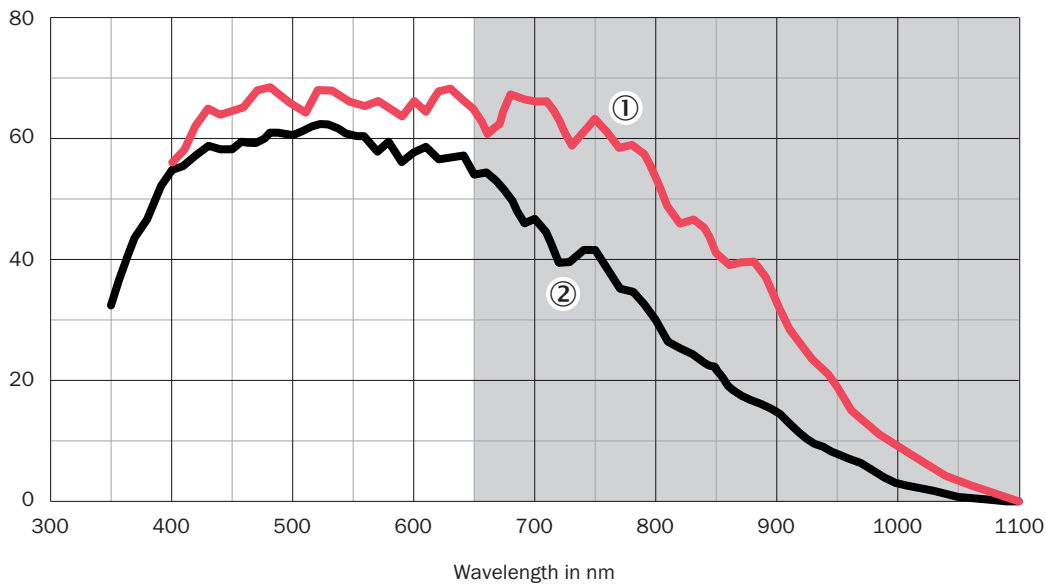
Field of view x in mm (inch)



- f = 12 mm
- f = 16 mm
- f = 25 mm
- f = 35 mm
- f = 50 mm

### Spectral range


Quantum efficiency in %



- ① NIR
- ② Monochrome

Recommended accessories

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

	Brief description	Type	part no.
connectors and cables			
	<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
	<ul style="list-style-type: none"> <li>• <b>Connection type head A:</b> Female connector, HR10, 6-pin</li> <li>• <b>Connection type head B:</b> Flying leads</li> <li>• <b>Signal type:</b> Power, I/O</li> <li>• <b>Cable:</b> 5 m</li> <li>• <b>Description:</b> Power, I/O</li> </ul>	Connecting cable (female connector – open)	6061064

## 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)