



# I2D302C-RCA11

picoCam

2D MACHINE VISION

**SICK**  
Sensor Intelligence.



## Ordering information

| Type          | part no. |
|---------------|----------|
| I2D302C-RCA11 | 6060392  |

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 Color                                                                                                               |
| <b>Sensor used</b>        | e2V EV76C570ACT                                                                                                          |
| <b>Shutter technology</b> | Global-Shutter<br>Rolling-Shutter<br>Global-Start-Shutter                                                                |
| <b>Illumination</b>       | To be ordered separately as accessories                                                                                  |
| <b>Further functions</b>  | Scaler, Sequencer, log mode, Hot pixel correction on the sensor, Fine illumination grid, Multi area of interest, Binning |
| <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> | 1,600 px x 1,200 px (1.92 Mpixel, 4:3, UXGA)           |
| <b>Sensor size</b>       | 7.2 mm x 5.4 mm                                        |
| <b>Scan/frame rate</b>   | 35.6 fps, in freerun mode<br>34.4 fps, in trigger mode |
| <b>Memory</b>            | 60 MB                                                  |

|                      |                       |
|----------------------|-----------------------|
| <b>Exposure time</b> | 0.02 ms ... 10,000 ms |
| <b>Pixel size</b>    | 4.5 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. |
|-------------|--------------------------------------------------|

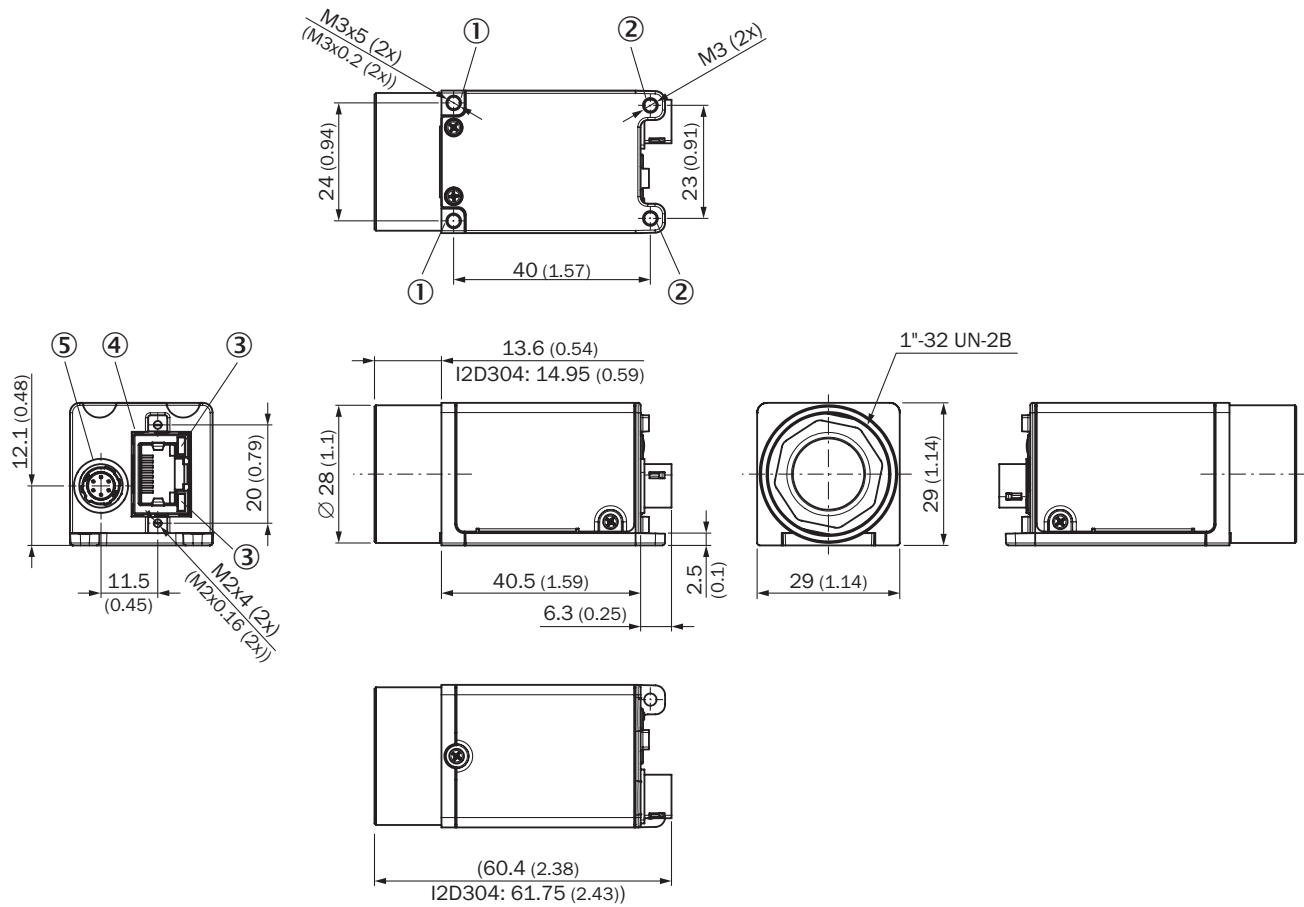
## Certificates

|                                       |   |
|---------------------------------------|---|
| <b>EU declaration of conformity</b>   | ✓ |
| <b>ACMA declaration of conformity</b> | ✓ |
| <b>China RoHS</b>                     | ✓ |

## 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 |

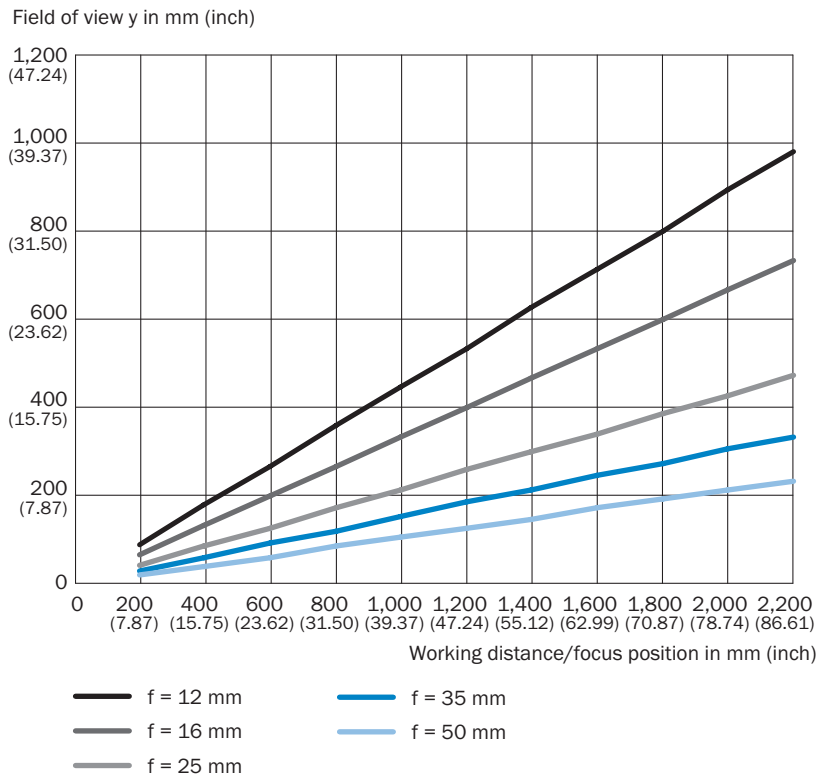
### Dimensional drawing



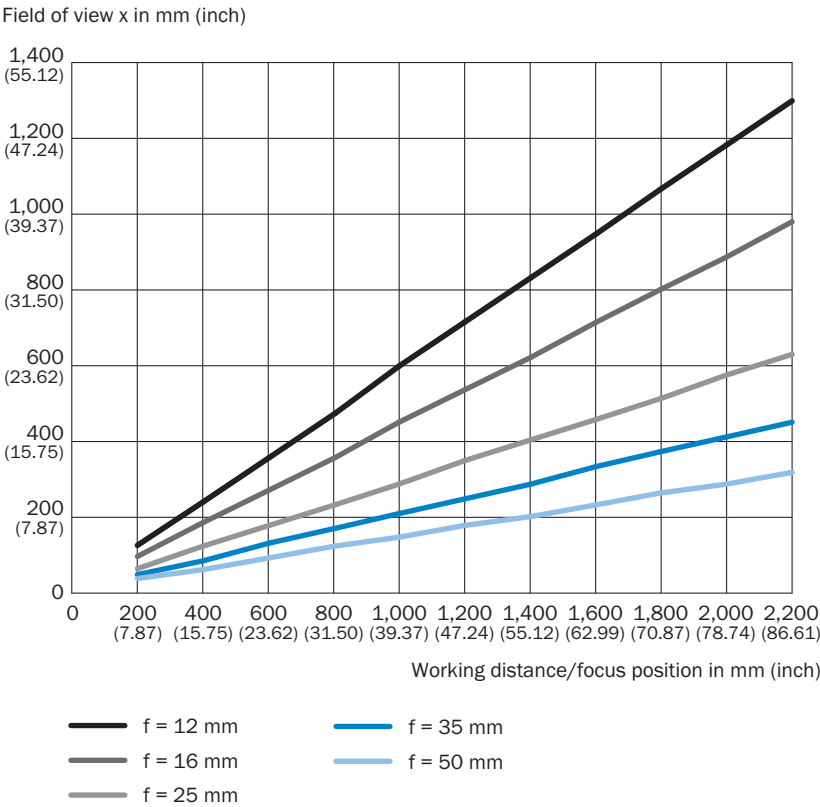
Dimensions in mm (inch)

- 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

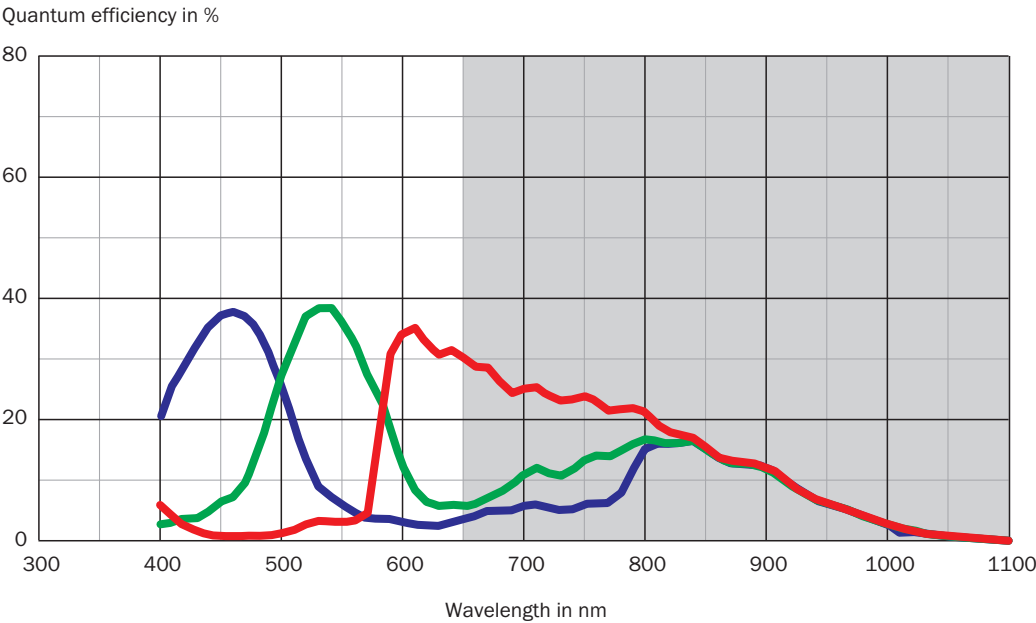
## Field of view



Field of view

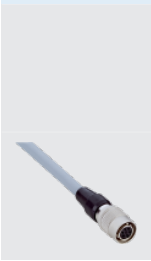


Spectral range



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)