



I2D-301M

picoCam

2D VISION

SICK
Sensor Intelligence.



Ordering information

| Type | Part no. |
|----------|----------|
| I2D-301M | 6060388 |

Other models and accessories → www.sick.com/picoCam



Detailed technical data

Features

| | |
|---------------------------|--|
| Sensor | CMOS monochrome |
| Sensor used | e2V EV76C560ABT |
| Shutter technology | Global-Shutter Rolling-Shutter Global-Start-Shutter |
| Further functions | Line mode, Scaler, Sequenzer, log mode, Hot pixel correction on the sensor, Fine illumination grid, Multi area of interest, Binning, Subsampling |
| Lens | C-mount |
| Optical format | 1/1.8" |

Performance

| | |
|--------------------------|--|
| Bit depth | 12 bit |
| Sensor resolution | 1,280 px x 1,024 px (1.31 Mpixel, 5:4, SXGA) |
| Sensor size | 6.784 mm x 5.427 mm |
| Scan/frame rate | 50 fps, in freerun mode 48 fps, in trigger mode |
| Memory | 60 MB |
| Exposure time | 0.009 ms ... 2,000 ms |
| Pixel size | 5.3 µm |

Interfaces

| | |
|-------------------------------|--------------------|
| Ethernet | ✓, UDP/IP |
| Data transmission rate | 1,000 Mbit/s |
| Configuration software | I2D Software Suite |

Mechanics/electronics

| | |
|--------------------------|---|
| Connections | Hirose 6-pin male connector (voltage supply, 1 digital input, 1 digital output) |
| Supply voltage | 12 V ... 24 V ¹⁾ |
| Power consumption | ≤ 2.9 W |
| Enclosure rating | IP30 |

¹⁾ Or PoE.

| | |
|-------------------------------|-------------------------|
| Weight | 61 g |
| Dimensions (L x W x H) | 40.5 mm x 29 mm x 29 mm |

¹⁾ Or PoE.

Ambient data

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

¹⁾ Relative humidity: 20% ... 80%.

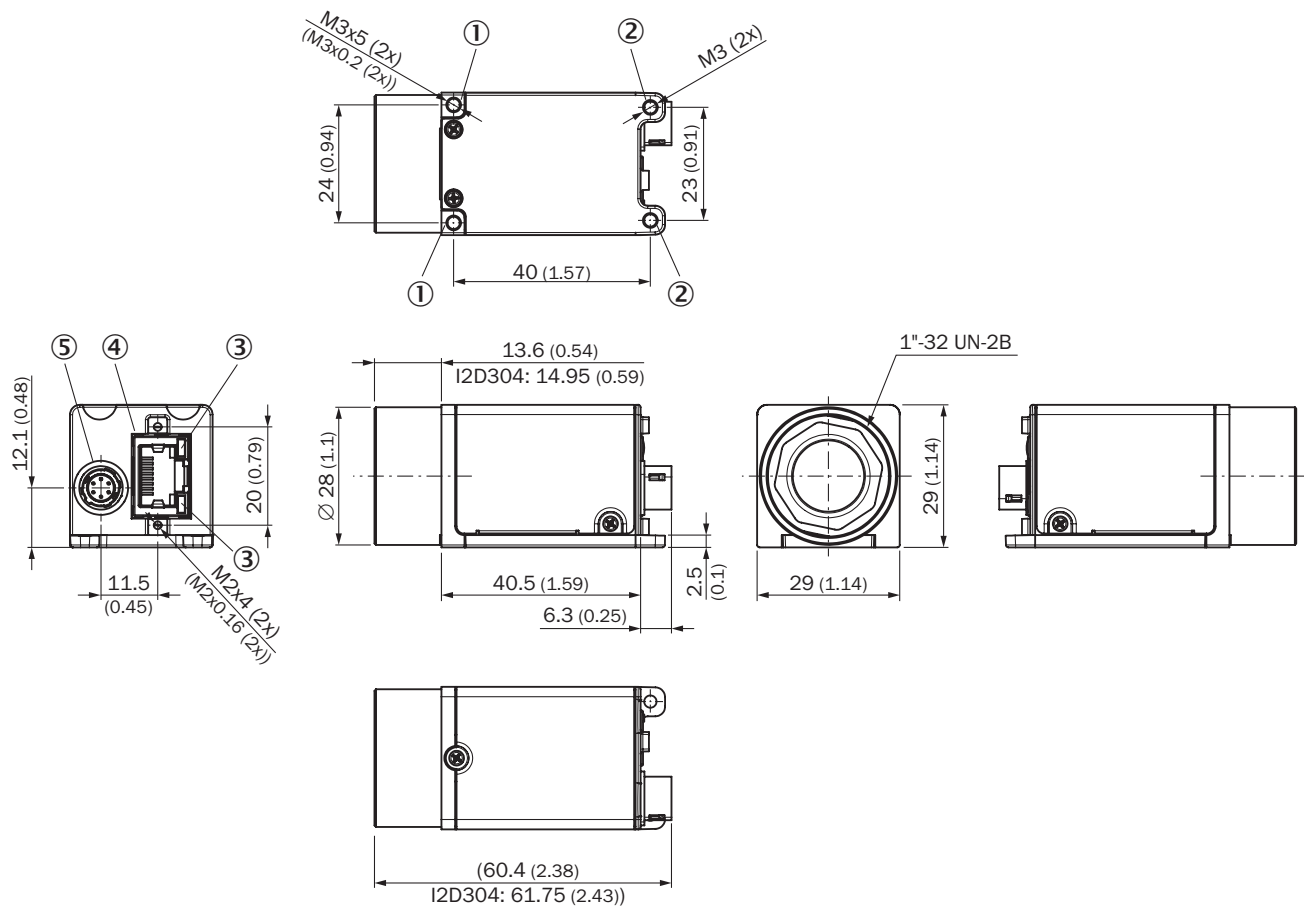
General notes

| | |
|-------------|--|
| Note | Not free of paint wetting impairment substances. |
|-------------|--|

Classifications

| | |
|-----------------------|----------|
| ECl@ss 5.0 | 27310205 |
| ECl@ss 5.1.4 | 27310205 |
| ECl@ss 6.0 | 27310205 |
| ECl@ss 6.2 | 27310205 |
| ECl@ss 7.0 | 27310205 |
| ECl@ss 8.0 | 27310205 |
| ECl@ss 8.1 | 27310205 |
| ECl@ss 9.0 | 27310205 |
| ETIM 5.0 | EC001820 |
| ETIM 6.0 | EC001820 |
| UNSPSC 16.0901 | 43211731 |

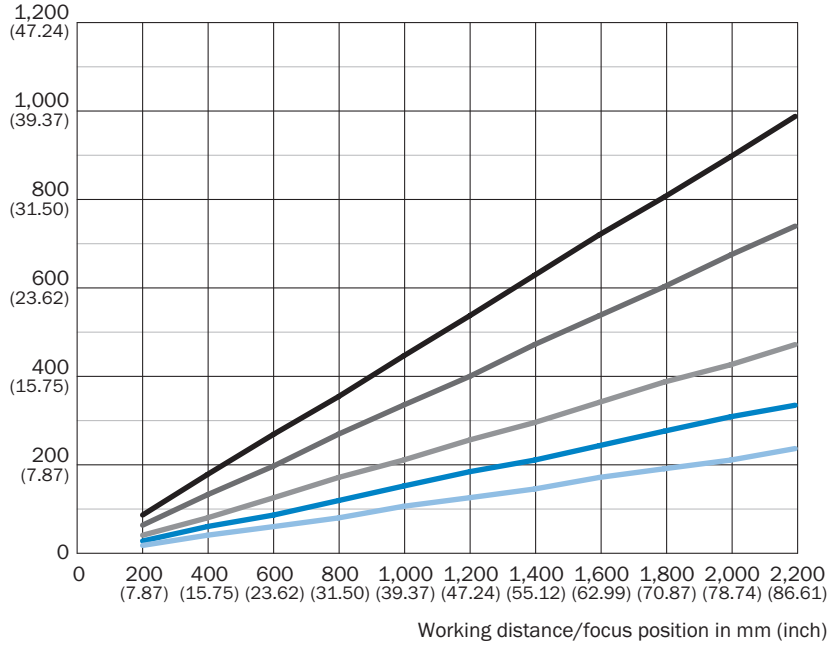
Dimensional drawing (Dimensions in mm (inch))



- 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

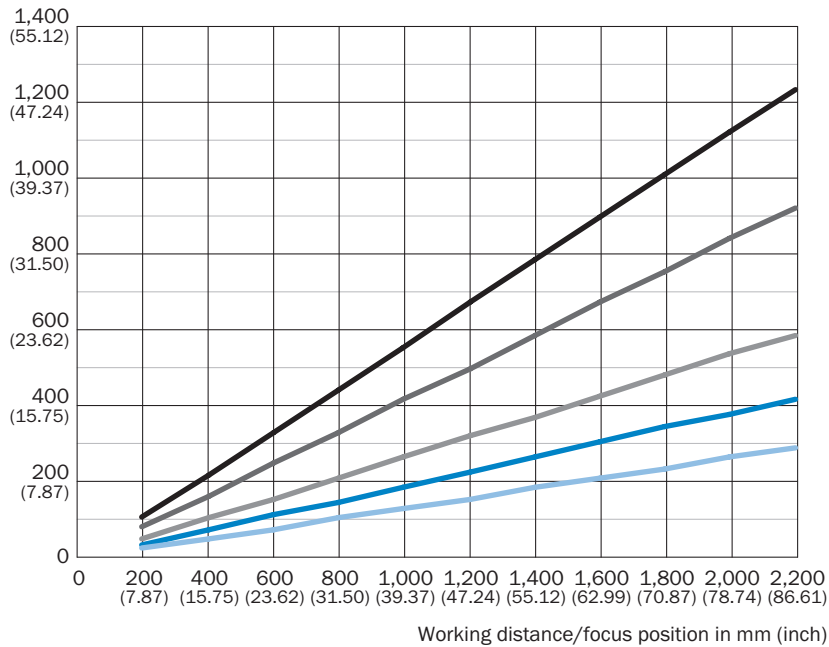
Field of view

Field of view y in mm (inch)



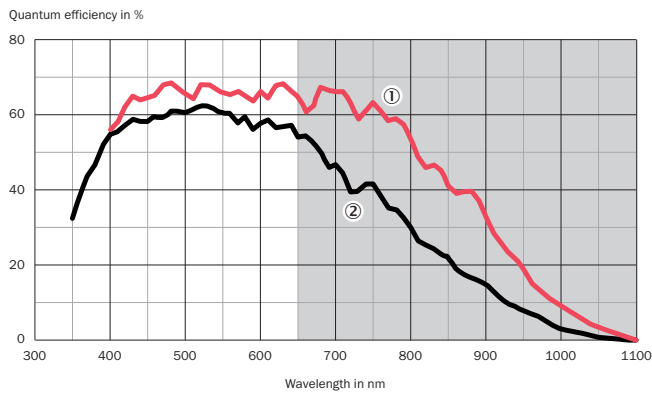
- f = 12 mm
- f = 16 mm
- f = 25 mm
- f = 35 mm
- f = 50 mm

Field of view x in mm (inch)



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

Spectral range



- ① NIR
- ② Monochrome

Recommended accessories

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| | Brief description | Type | Part no. |
|----------------------------|---|--|----------|
| Plug connectors and cables | | | |
| | Head A: female connector, HR10, 6-pin Head B: Flying leads Cable: Power, I/O, 5 m | Connecting cable (female connector - open) | 6061064 |
| | Head A: male connector, RJ45 Head B: male connector, RJ45 Cable: Ethernet, Highly flexible, unshielded, 3 m | SSL-080J-G03MACR | 6037974 |

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:

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