Online data sheet




# I2D-602M

midiCam

2D VISION

SICK
Sensor Intelligence.




## Ordering information

| Type | Part no. |
|---|---|
| I2D-602M | 6060402 |

Other models and accessories ➜ www.sick.com/midiCam

## Detailed technical data

### Features

| | |
|---|---|
| **Sensor** | CMOS monochrome |
| **Sensor used** | e2V EV76C570ABT |
| **Shutter technology** | Global-Shutter<br>Rolling-Shutter<br>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 |
| **Lens** | C-mount |
| Optical format | 1/1.8" |

### Performance

| | |
|---|---|
| **Bit depth** | 12 bit |
| **Sensor resolution** | 1,600 px x 1,200 px (1.92 Mpixel, 4:3, UXGA) |
| **Sensor size** | 7.2 mm x 5.4 mm |
| **Scan/frame rate** | 35.6 fps, in freerun mode<br>34.4 Hz, in trigger mode |
| **Memory** | 60 MB |
| **Exposure time** | 0.02 ms ... 10,000 ms |
| **Pixel size** | 4.5 µm |

### Interfaces

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

### Mechanics/electronics

| | |
|---|---|
| **Connections** | M12, 8-pin male connector, A-coded (2 GPIOs, 1 digital input, 1 digital output) |
| **Supply voltage** | 12 V ... 24 V [1)] |
| **Power consumption** | ≤ 2.9 W |
| **Enclosure rating** | IP65<br>IP67 |

[1)] Or PoE.

| | |
|---|---|
| **Weight** | 175 g |
| **Dimensions (L x W x H)** | 44.7 mm x 53 mm x 41 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: 0% ... 100%.

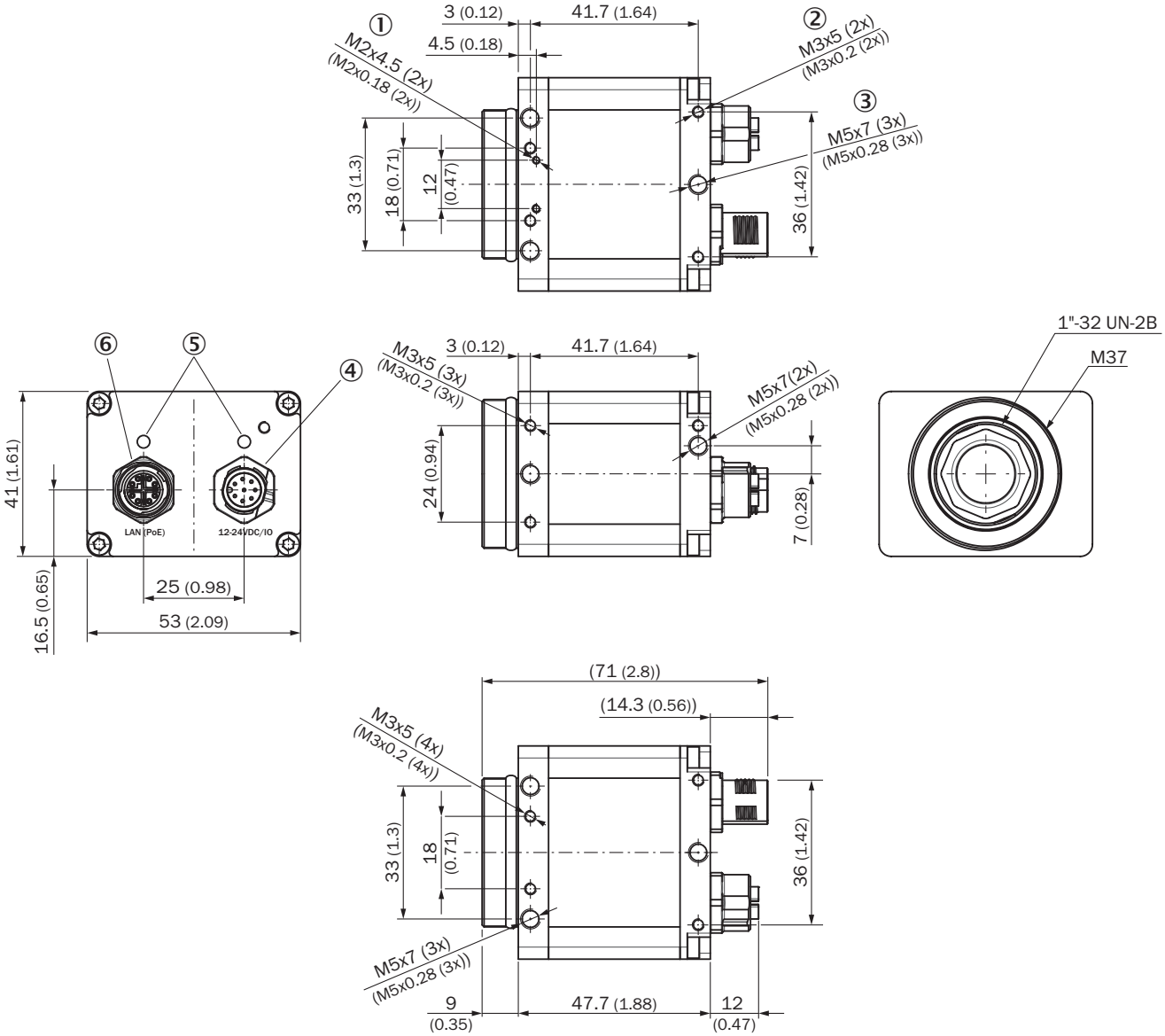
## General notes

| | |
|---|---|
| **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 |

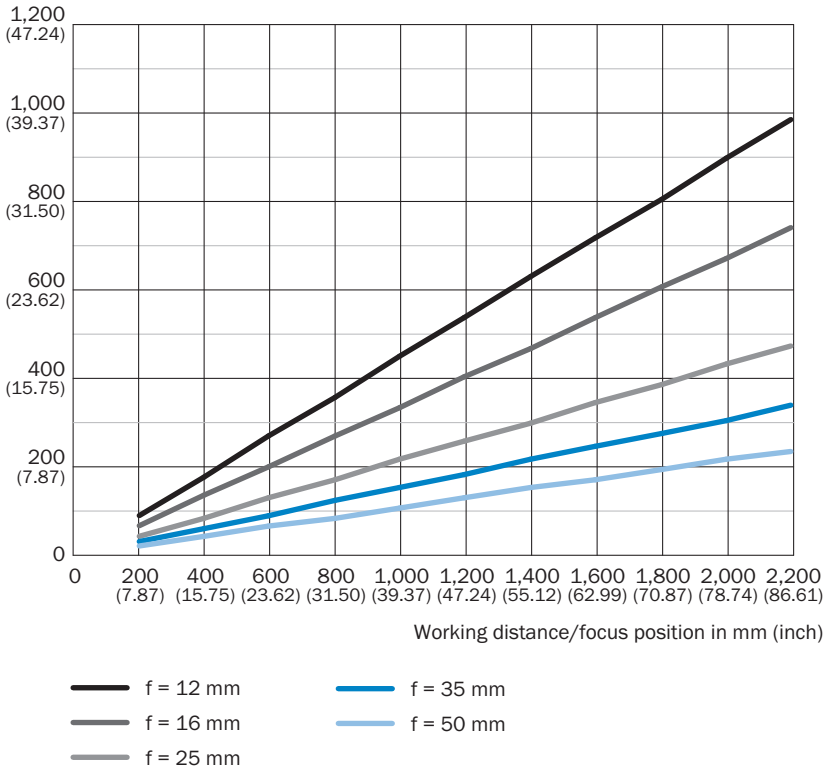
## Dimensional drawing (Dimensions in mm (inch))



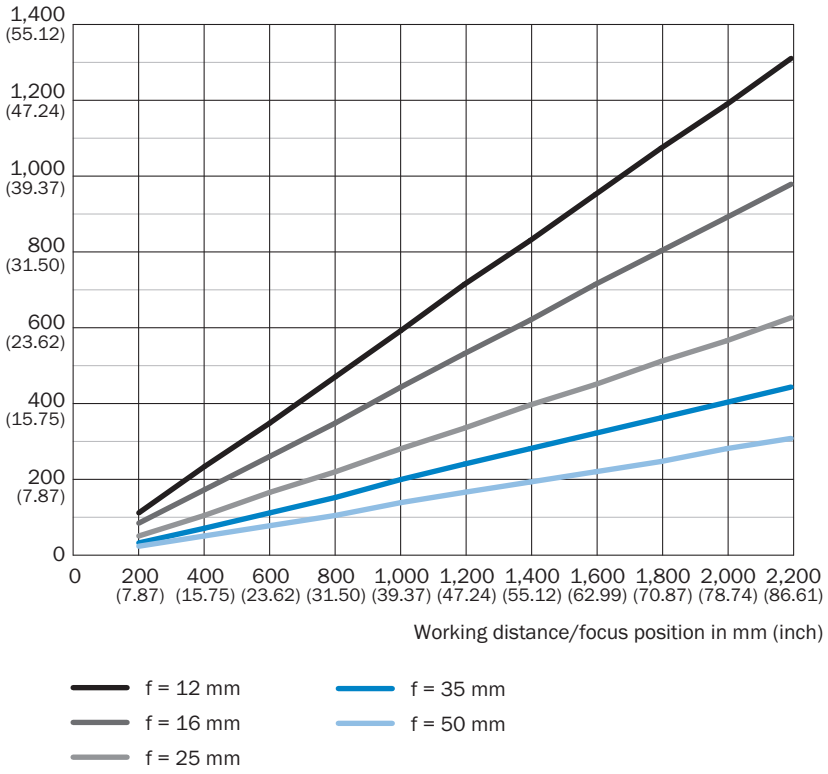

① Blind hole thread M2, 4.5 mm deep (2 x)
② Blind hole thread M3, 5 mm deep (14 x), for mounting
③ M6 blind tapped holes, 7 mm deep (10 x), for mounting
④ I/O power connection, male connector, M12, 8-pin, A-kodiert, Binder
⑤ LED for status display (2 x)
⑥ M12, 8-pin female connector, X-coded (Gigabit Ethernet)

## Field of view

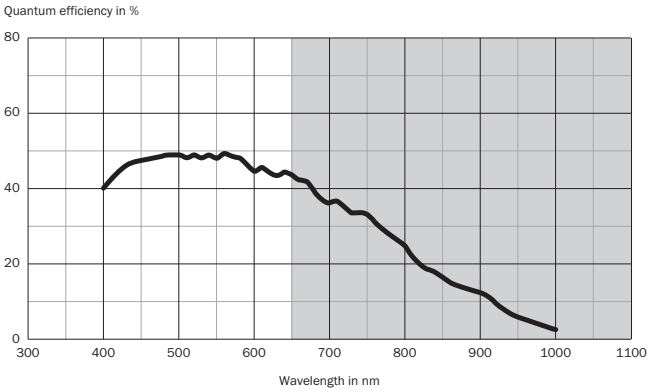
Field of view y in mm (inch)




Field of view x in mm (inch)



## Spectral range




## Recommended accessories

Other models and accessories ➜ www.sick.com/midiCam

| | Brief description | Type | Part no. |
|---|---|---|---|
| Plug connectors and cables | | | |
|  | Head A: female connector, M12, 8-pin, straight, A-coded<br>Head B: Flying leads<br>Cable: Sensor/actuator cable, PVC, shielded, 2 m | YF2A28-020VA6XLEAX | 2096243 |
|  | Head A: male connector, M12, 8-pin, straight, X-coded<br>Head B: male connector, RJ45, 8-pin, straight<br>Cable: Gigabit Ethernet, twisted pair, PUR, halogen-free, shielded, 2 m | SSL-2J08-G02MACE | 6049728 |

# 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.”**

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