



# I2D602M-MCB71

midiCam

2D MACHINE VISION

**SICK**  
Sensor Intelligence.



## Ordering information

Type	part no.
I2D602M-MCB71	6060402

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



## 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 EV76C570ABT
<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
<b>Lens</b>	C-mount
Optical format	1/1.8"
Note	To be ordered separately as accessories

## Mechanics/electronics

<b>Connection type</b>	M12, 8-pin male connector, A-coded (2 GPIOs, 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>	IP65 IP67 <sup>2)</sup>
<b>Weight</b>	175 g
<b>Dimensions (L x W x H)</b>	44.7 mm x 53 mm x 41 mm

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

<sup>2)</sup> When using a optics protection hood and an M12 connection cap for the connection not in use.

## 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 34.4 Hz, 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: 0% ... 100%.

## General notes

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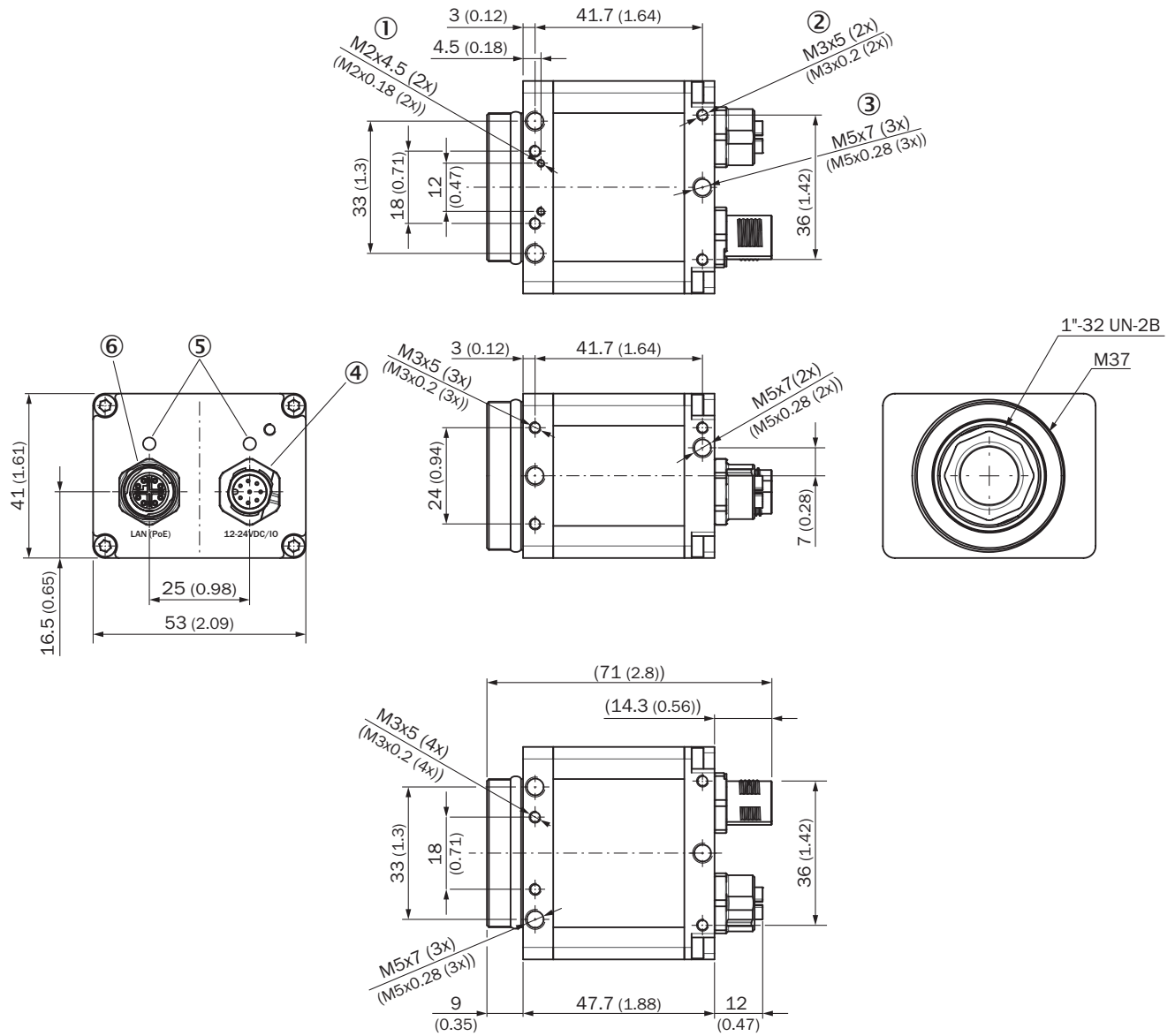
## Certificates

<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

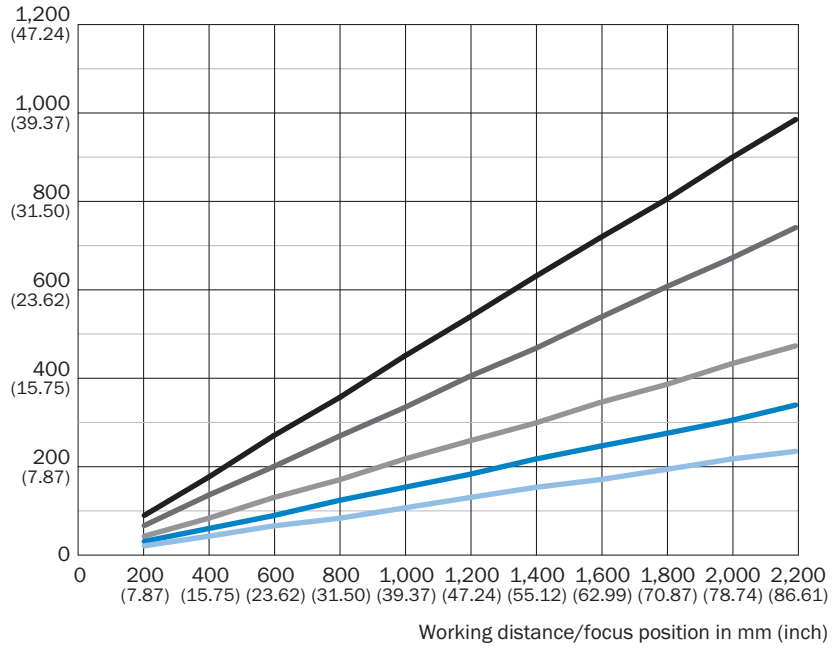


Dimensions in mm (inch)

- ① blind hole thread 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 coded, Binder
- ⑤ LED for status display (2 x)
- ⑥ M12, 8-pin female connector, X-coded (Gigabit Ethernet)

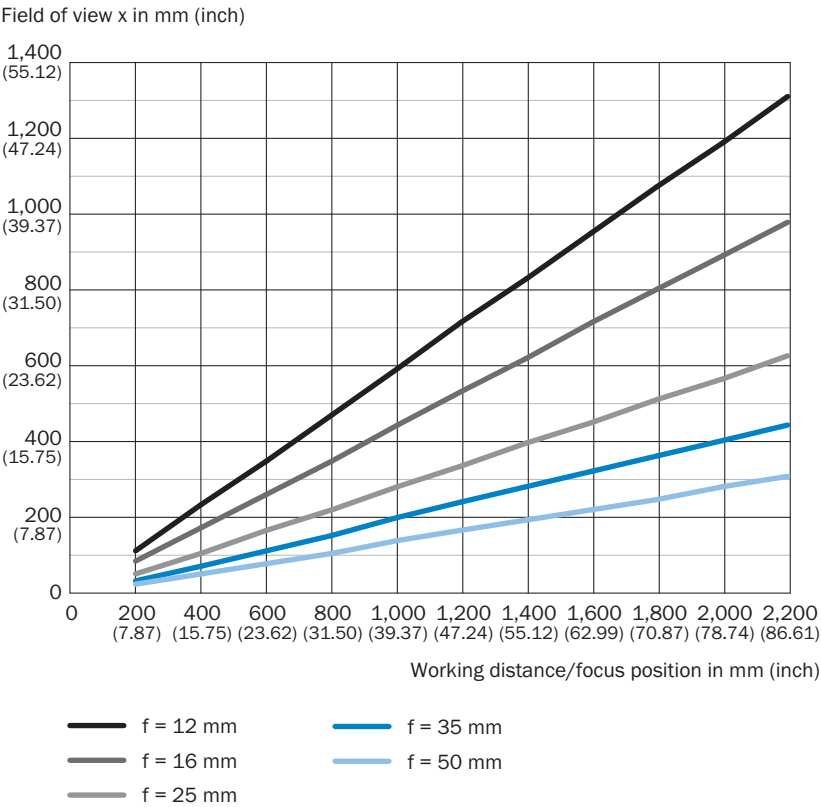
## Field of view

Field of view y in mm (inch)

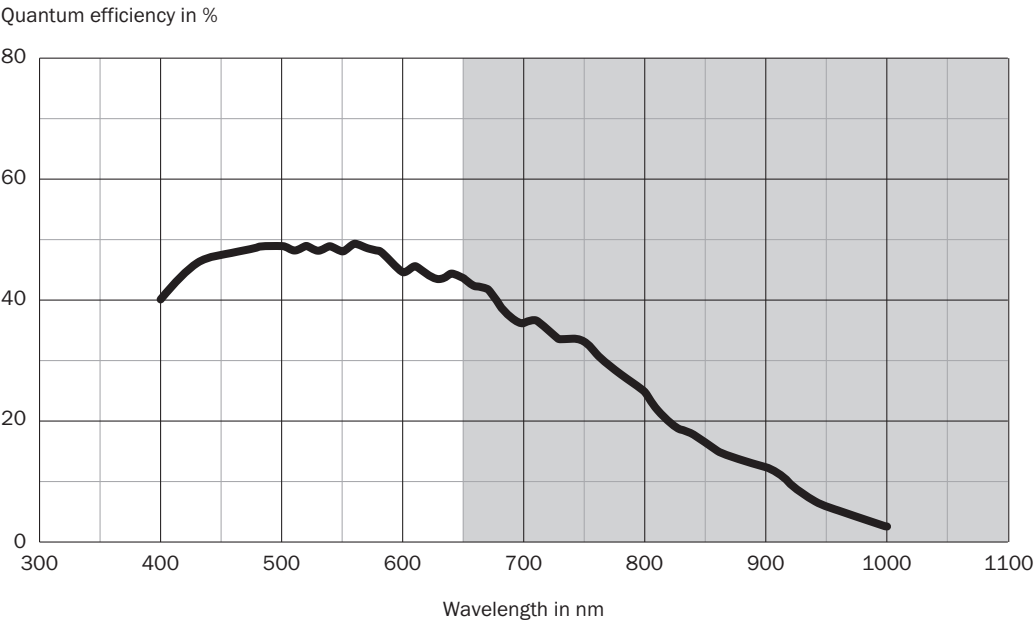


— f = 12 mm      — f = 35 mm  
 — f = 16 mm      — f = 50 mm  
 — f = 25 mm

Field of view









Spectral range



## Recommended accessories

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

	Brief description	Type	part no.
connectors and cables			
	<ul style="list-style-type: none"> <li><b>Connection type head A:</b> Female connector, M12, 8-pin, straight, A-coded</li> <li><b>Connection type head B:</b> Flying leads</li> <li><b>Signal type:</b> Sensor/actuator cable</li> <li><b>Cable:</b> 2 m, 8-wire, PVC</li> <li><b>Description:</b> Sensor/actuator cable, shielded</li> <li><b>Application:</b> Zones with chemicals, Uncontaminated zones</li> </ul>	YF2A28-020VA6XLEAX	2096243
	<ul style="list-style-type: none"> <li><b>Connection type head A:</b> Male connector, M12, 8-pin, straight, X-coded</li> <li><b>Connection type head B:</b> Male connector, RJ45, 8-pin, straight</li> <li><b>Signal type:</b> Ethernet, Gigabit Ethernet</li> <li><b>Cable:</b> 2 m, 8-wire, PUR, halogen-free</li> <li><b>Description:</b> Ethernet, shielded, Gigabit Ethernet</li> <li><b>Application:</b> Zones with oils and lubricants</li> </ul>	YM2X18-020EG1M-RJA8	2106258
	<ul style="list-style-type: none"> <li><b>Connection type head A:</b> Male connector, M12, 8-pin, straight, X-coded</li> <li><b>Connection type head B:</b> Male connector, RJ45, 8-pin, straight</li> <li><b>Signal type:</b> Ethernet, Gigabit Ethernet</li> <li><b>Cable:</b> 3 m, 8-wire, PUR, halogen-free</li> <li><b>Description:</b> Ethernet, shielded, Gigabit Ethernet</li> <li><b>Application:</b> Zones with oils and lubricants</li> </ul>	YM2X18-030EG1M-RJA8	2145693
	<ul style="list-style-type: none"> <li><b>Connection type head A:</b> Female connector, M12, 8-pin, straight, A-coded</li> <li><b>Connection type head B:</b> Flying leads</li> <li><b>Signal type:</b> Sensor/actuator cable</li> <li><b>Cable:</b> 3 m, 8-wire, PVC</li> <li><b>Description:</b> Sensor/actuator cable, shielded</li> <li><b>Application:</b> Zones with chemicals, Uncontaminated zones</li> </ul>	YF2A28-030VA6XLEAX	2145695
	<ul style="list-style-type: none"> <li><b>Connection type head A:</b> Female connector, M12, 8-pin, straight, A-coded</li> <li><b>Connection type head B:</b> Flying leads</li> <li><b>Signal type:</b> Sensor/actuator cable</li> <li><b>Cable:</b> 0.6 m, 8-wire, PVC</li> <li><b>Description:</b> Sensor/actuator cable, shielded</li> <li><b>Application:</b> Zones with chemicals, Uncontaminated zones</li> </ul>	YF2A28-C60VA6XLEAX	2145385
	<ul style="list-style-type: none"> <li><b>Connection type head A:</b> Female connector, M12, 8-pin, straight, A-coded</li> <li><b>Connection type head B:</b> Flying leads</li> <li><b>Signal type:</b> Sensor/actuator cable</li> <li><b>Cable:</b> 1 m, 8-wire, PVC</li> <li><b>Description:</b> Sensor/actuator cable, shielded</li> <li><b>Application:</b> Zones with chemicals, Uncontaminated zones</li> </ul>	YF2A28-010VA6XLEAX	2145386

## 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)