I2D303M-RCA11

picoCam

2D MACHINE VISION

SICK
Sensor Intelligence.

I2D303M-RCA11 | picoCam

2D MACHINE VISION

Ordering information

Type	part no.
I2D303M-RCA11	6060394

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

CE

Detailed technical data

Features

Technology	2D snapshot
Product category	Streaming, flexible
Sensor	CMOS monochrome
Sensor used	Sony IMX249LLJ-C
Shutter technology	Global-Shutter
Illumination	To be ordered separately as accessories
Further functions	Multi area of interest, Subsampling
Lens	C-mount
Optical format	1/1.2"
Note	To be ordered separately as accessories

Mechanics/electronics

Connection type	Hirose 6-pin male connector (voltage supply, 1 digital input, 1 digital output)
Supply voltage	12 V ... 24 V [1]
Power consumption	≤ 3 W
Enclosure rating	IP30
Weight	61 g
Dimensions (L x W x H)	40.5 mm x 29 mm x 29 mm

[1] Or PoE.

Performance

Bit depth	12 bit
Sensor resolution	1,936 px x 1,216 px (2.35 Mpixel, 16:10, 2 MP)
Sensor size	11.34 mm x 7.13 mm
Scan/frame rate	41 fps
Memory	60 MB
Exposure time	0.033 ms ... 999 ms
Pixel size	5.86 µm

Interfaces

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

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]
Storage temperature	–20 °C … +60 °C [1]

[1] Relative humidity: 20% … 80%.

General notes

Note	Not free of paint wetting impairment substances.

Certificates

EU declaration of conformity	✓
ACMA declaration of conformity	✓
China-RoHS	✓

Classifications

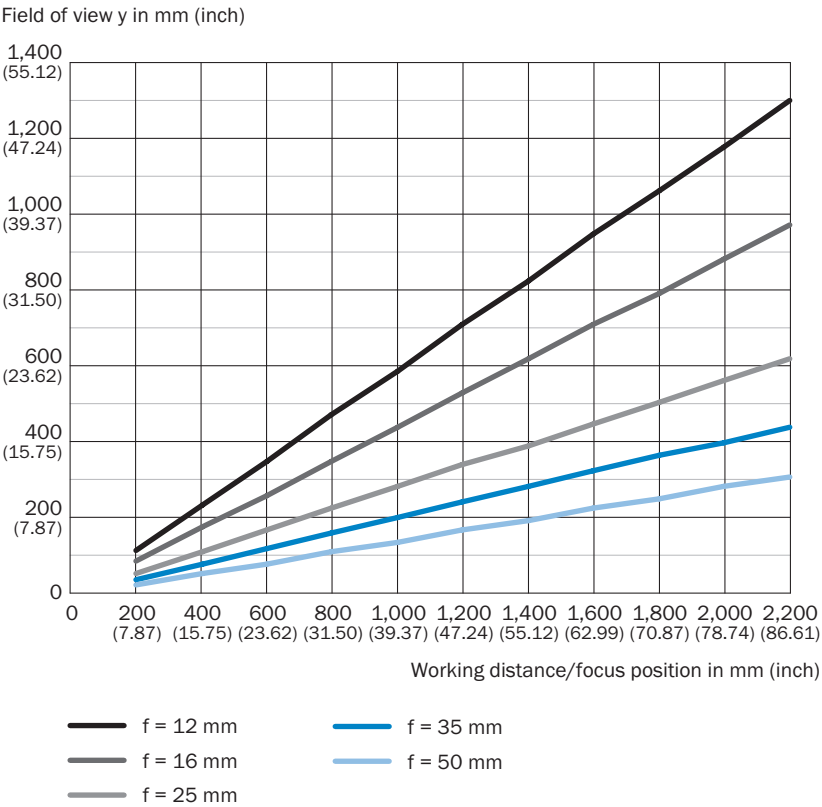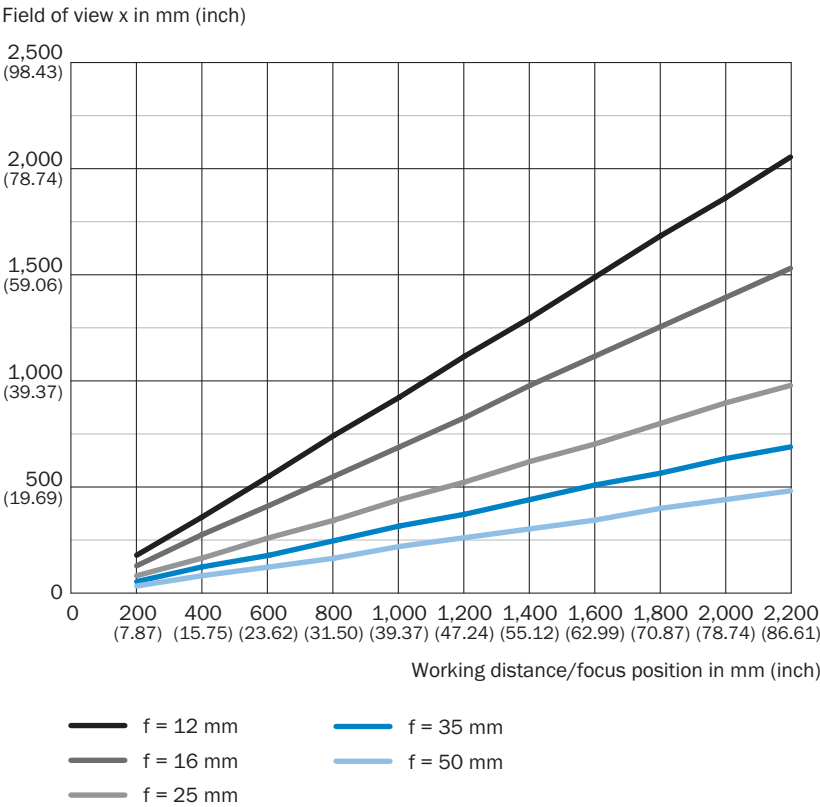|	
ECLASS 5.0	27310205
ECLASS 5.1.4	27310205
ECLASS 6.0	27310205
ECLASS 6.2	27310205
ECLASS 7.0	27310205
ECLASS 8.0	27310205
ECLASS 8.1	27310205
ECLASS 9.0	27310205
ECLASS 10.0	27310205
ECLASS 11.0	27310205
ECLASS 12.0	27310205
ETIM 5.0	EC001820
ETIM 6.0	EC001820
ETIM 7.0	EC001820
ETIM 8.0	EC001820
UNSPSC 16.0901	43211731

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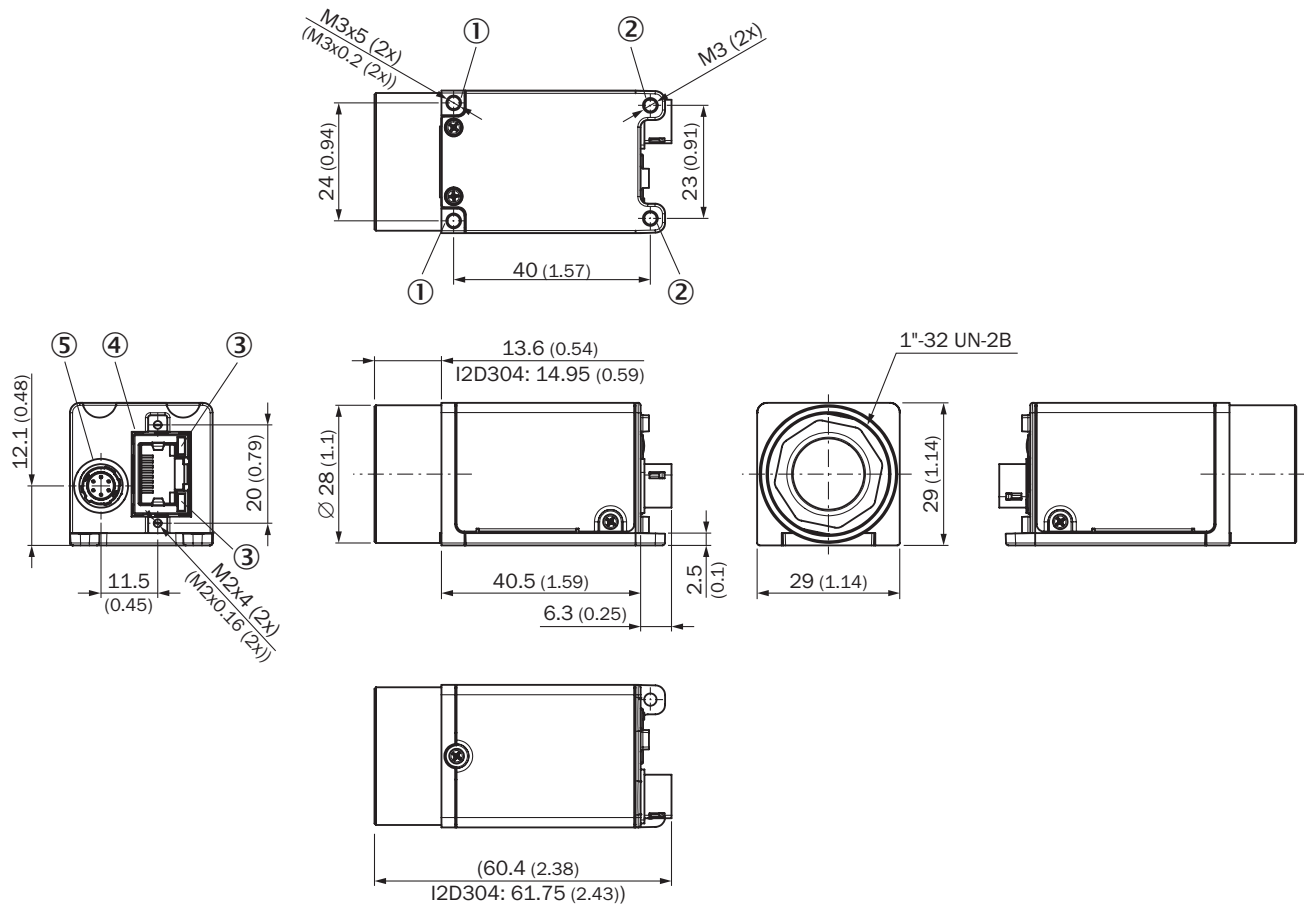
Dimensions in mm (inch)
① blind hole thread M3, 5 mm deep (12 x), for mounting
② Fixing hole M3 (2 x), for mounting
③ LED for status display (2 x)
④ Gigabit Ethernet port, RJ45, 8-pin
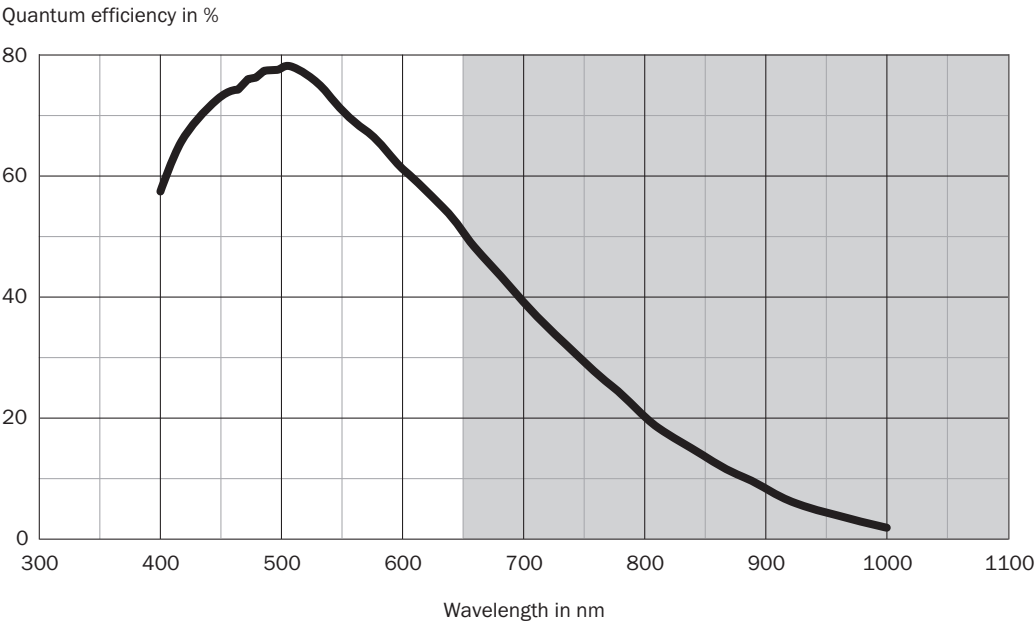⑤ Power I/O connection, male connector, M12, 6-pin, Hirose

Field of view

Field of view y in mm (inch)

Working distance/focus position in mm (inch)

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

Field of view

Field of view x in mm (inch)

Working distance/focus position in mm (inch)

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

Spectral range

Quantum efficiency in %

Wavelength in nm

Recommended accessories

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

Brief description	Type	part no.
connectors and cables		
• **Connection type head A:** Male connector, RJ45 • **Connection type head B:** Male connector, RJ45 • **Signal type:** Ethernet • **Cable:** 3 m, CAT5, CAT5e • **Description:** Ethernet, Highly flexible, unshielded	SSL-080J-G03MACR	6037974
• **Connection type head A:** Female connector, HR10, 6-pin • **Connection type head B:** Flying leads • **Signal type:** Power, I/O • **Cable:** 5 m • **Description:** PowerI/O	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."

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