



V2D652P-2MEWHA6

InspectorP65x

2D MACHINE VISION





Ordering information

Туре	Part no.
V2D652P-2MEWHA6	1082305

Other models and accessories → www.sick.com/InspectorP65x



Detailed technical data

Features

Task	Classification Identifying Position determination 1D code 2D code Presence inspection Quality check Measuring, 2D OCR
Technology	2D snapshot
Product category	Programmable
SensorApp	Nova InspectorP
License included	Quality Inspection License Optional upgrade with the Intelligent Inspection Upgrade License, which enables productive use of the complete toolset.
Sensor	CMOS matrix sensor, grayscale values
Shutter technology	Global-Shutter
Optical focus	Dynamic focus control
Illumination	Integrated
Illumination color	White, LED, Visible, Blue, LED, Visible, 455 nm
Feedback spot	LED, Visible, green, 525 nm, ± 15 nm
Alignment aid	Laser, Red, 630 nm 680 nm
Laser class	1, complies with 21 CFR 1040.10 except for the conformance according to "Laser Notice No. 50" from June 24, 2007 (IEC 60825-1:2014, EN 60825-1:2014)
LED class	"White + feedback LED" option: risk group 1 (low risk) according to IEC 62471-1:2006-07/EN 62471-1:2008-09 Irradiance: LB: $< 10 \times 103 \text{ W/(m2sr)}$ within 100 s; at a distance of $\ge 200 \text{ mm}$

	LR: < 7 x 105 W/(m2sr) within 10 s; at a distance of \geq 200 mm, "Blue + feedback LED" option: risk group 2 (moderate risk) according to IEC 62471-1:2006-07/EN 62471-1:2008-09 due to exposure to blue light. Irradiance: LB: < 10 x 103 W/(m2sr) within 50 s (RG 2); at a distance of \geq 200 mm LR: < 7 x 105 W/(m2sr) within 10 s (RG 1); at a distance of \geq 200 mm Risk RG 1 (low risk) corresponding to LB < 10 x 103 W/(m2sr) within 100 s for distances \geq 1 m
Spectral range	Approx. 400 nm 900 nm
Lens	
Optical form	at 1"

Mechanics/electronics

Connection type	1 x M12, 17-pin male connector (serial, I/Os, voltage supply) 1 x M8, 4-pin female connector (USB, not used) 2 x M12, 8-pin female connector (Gigabit Ethernet, only one connection used)
Supply voltage	24 V DC, ± 20 %
Power consumption	Typ. 20 W, ± 20 %
Enclosure rating	IP65 (EN 60529 (1991-10), EN 60529/A2 (2002-02))
Protection class	III (EN 60950-1 (2014-08))
Housing material	Aluminum die cast
Window material	Glass
Weight	963 g
Dimensions (L x W x H)	142.8 mm x 90 mm x 106.1 mm

Performance

Sensor resolution	2,048 px x 1,088 px (2.1 Mpixel)
Scan/frame rate	70 Hz

Interfaces

Serial	√ , RS-232, RS-422
Data transmission rate	300 Baud 115.2 kBaud
Ethernet	√ , TCP/IP
Function	FTP, HTTP
Data transmission rate	10/100/1,000 Mbit/s
CAN	✓
Function	SICK CAN sensor network (CAN controller/CAN device)
EtherNet/IP™	√
Data transmission rate	10/100/1,000 Mbit/s
PROFINET	√
Function	PROFINET Single Port, PROFINET Dual Port (optional via external connection module CDF600-2)
Data transmission rate	10/100 MBit/s
Operator interfaces	Web server
Configuration software	SICK AppStudio
Data storage and retrieval	Image and data logging via microSD memory card and external FTP
Inputs/outputs	2 opto-decoupled inputs, 4 inputs/outputs, configurable
Output current	≤ 100 mA
Maximum encoder frequency	1 kHz

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External illumination	Via digital output (max. 24 V trigger)
Control elements	2 buttons
Optical indicators	21 LEDs (10 x status display, 10 x LED bar graph, 1 green feedback spot)
Acoustic indicators	Beeper

Ambient data

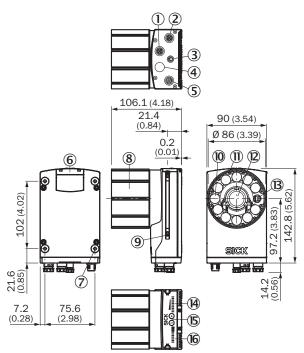
Shock load	EN 60068-2-27:2009-05
Vibration load	EN 60068-2-6:2008-02
Ambient operating temperature	0 °C +50 °C ¹⁾
Storage temperature	-20 °C +70 °C ¹⁾

 $^{^{1)}}$ Permissible relative air humidity: 0 % ... 90 % (non-condensing).

Classifications

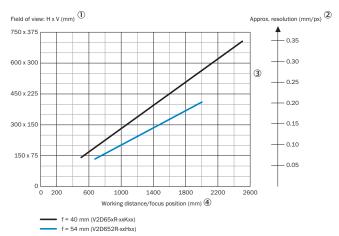
ECLASS 5.0	27310205
ECLASS 5.1.4	27310205
ECLASS 6.0	27310205
ECLASS 6.2	27310205
ECLASS 7.0	27310205
ECLASS 8.0	27310205
ECLASS 8.1	27310205
ECLASS 9.0	27310205
ECLASS 10.0	27310205
ECLASS 11.0	27310205
ECLASS 12.0	27310205
ETIM 5.0	EC001820
ETIM 6.0	EC001820
ETIM 7.0	EC001820
ETIM 8.0	EC001820
UNSPSC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

Dimensional drawing (Dimensions in mm (inch))



- ① "Ethernet" P1 connection
- ② P3 connection "Ethernet"
- ③ X2 "USB" connection or "trigger external lighting", depending on type
- ④ P2 connection "CAN OUT", depending on type
- ⑤ X1 "Power/Serial Data/CAN/I/O" connection or "CAN IN", depending on type
- **(6)** Cover for the microSD memory card
- ® Optics protection hood
- (9) Sliding nut M5, 5.5 mm deep (2 x), for mounting (as alternative)
- @ Green feedback LED
- 1 Ring lighting
- ② Lens
- 13 Laser alignment aid exit
- (4) Bar graph display
- (5) Function button (2 x)
- (a) LED for status display (2 levels), 10 x

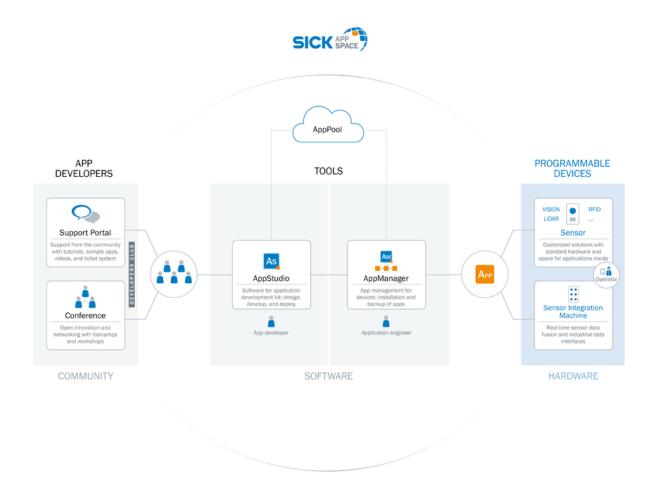
Field of view



- ① Field of view: Horizontal x vertical in mm
- ② Approximate resolution in mm/px
- 3 Lens focal length
- Working distance/Focus position in mm

Overview

SICK AppSpace



Recommended accessories

Other models and accessories → www.sick.com/InspectorP65x

	Brief description	Туре	Part no.
Mounting brad	ckets and plates		
150	Mounting bracket set consisting of mounting angle, cooling plate and screw including skew angle display	Mounting bracket kit	2069171
Other mounting accessories			
	Sliding nut, M5, short	Sliding nut	5324896

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	Brief description	Туре	Part no.	
Plug connecto	Plug connectors and cables			
88	 Connection type head A: Male connector, M12, 8-pin, straight, X-coded Connection type head B: Male connector, RJ45, 8-pin, straight Signal type: Ethernet, Gigabit Ethernet Cable: 2 m, 8-wire, PUR, halogen-free Description: Ethernet, Gigabit Ethernet, shielded Application: Zones with oils and lubricants 	YM2X18- 020EG1MRJA8	2106258	
Others				
	 Connection type head A: Female connector, M12, 17-pin, straight, A-coded Connection type head B: Male connector, M12, 17-pin, straight, A-coded Signal type: Power, serial, CAN, digital I/Os Cable: 3 m, 17-wire Description: Power, serial, CAN, digital I/Os, suitable for 2 A, shielded, to connection module CDB650 Application: Drag chain operation 	YM2A8D- 030XXXF2A8D	6051194	
Modules				
	 Sub product family: CDB650 Supported products: Lector[®] series, CLV62x - CLV64x (depending on type), CLV69x, RFID read/write device, InspectorP series Brief description: Connection device basic for connecting one sensor with 2 A fuse, 5 cable glands and RS-232 interface to sensor via M12, 17-pin female connector, all outputs available on screw/spring-loaded terminals. 	CDB650-204	1064114	

Recommended services

Additional services → www.sick.com/InspectorP65x

	Туре	Part no.
Extended warranty		
 Product area: Identification solutions, machine vision, Detection and ranging solutions, safety camera sensors, Safety laser scanners, Safety radar sensors Range of services: The services correspond to the scope of the statutory manufacturer warranty (SICK general terms of delivery). Duration: Five-year warranty from delivery date. 	Extended warranty for a total of five years from delivery date	1680671

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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