

Label Checker

COMPLEX LABEL INSPECTIONS WITH HIGH PERFORMANCE OCR

Quality control systems

SICK
Sensor Intelligence.

READ, VERIFY AND CHECK ANY TYPE OF LABEL

Accurate product labeling is essential for ensuring overall process quality. The Label Checker quality control system is the right choice for such applications: It checks countless product label features, making sure that labeling processes run smoothly and efficiently at all times. This results in very high product quality and productivity.



Application examples

Due to its flexibility and wide selection of inspection functions, the Label Checker is suitable for a large variety of applications in the following key industries.



Food and beverage industry

- Checks labels during post-printing and packaging
- Reads labels on products with different shapes and sizes, e.g. round surfaces
- Checks production and expiration dates as well as batch numbers
- Monitors whether labels are correctly attached to products



Pharma and cosmetics industry

- Reads and verifies data, e.g. of expiration dates and pictograms
- Reads pharma codes
- Checks contents of blister packs



Consumer goods industry

- Reads labels on products with different shapes and sizes
- Checks label dimensions
- Can be programmed to monitor several different label types, thereby accelerating product changeovers



Packaging industry

- Inspects packaging and verifies dimensions
- Reads bar codes, 2D codes and markings readable for humans
- Can read and inspect even texts with weak contrasts, therefore preventing unplanned plant downtime



Automotive and parts suppliers

- Checks batch and serial numbers
- Complies with the product requirements of Industry 4.0
- Checks parts from different suppliers
- Inspects the presence of labels and direct part marks (DPM)



Electronics and solar industry

- Identifies parts based on printed, embossed or laser-cut numbers and text
- Controls batches and serial numbers
- Reads very small part markings as well as large product labels



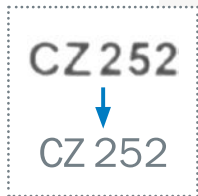
EFFICIENT LABEL INSPECTIONS WITH HIGH-PERFORMANCE OCR

The compact, modular Label Checker covers a broad range of label inspection tasks. Take advantage of its advanced OCR algorithms and the image-based code reader of the quality control system.



High-end features that advance your label inspection process

+ Clever algorithm ensures seamless operation and accelerates workflow



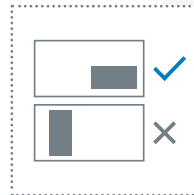
- Optical Character Recognition (OCR) and verification for reading and inspection of production dates, batch numbers, etc.
- Algorithm converts printed text into digital form to verify the correctness of the respective text
- Algorithms are based on deep-learning technology
- Automatically separates overlapping characters

+ Comprehensive label checking with automatic bar code detection



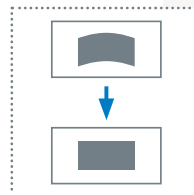
- Locates, reads and validates bar codes and 2D codes within previously defined areas
- Verifies the correct numerical data
- Code quality check
- Easy label dimension check and verification of label position

+ Identifies different shapes, thereby mastering changing label positions



- Use of reference shapes to determine the label position
- Reliable verification and inspection even if the label position changes
- System covers a reading range of 360 degrees

+ Inspects uneven surfaces and corrects image errors (rectification) in real time



- Correction of perspective distortions and imaging errors caused, for example, by the barrel distortion of the lens



Choose your solution from its variants: Label Checker offers various resolutions and different processing performances. Extensive lens and illumination accessories round out the offer and ensure that even very different application requirements are met.

Modular, robust system for multiple applications

+ Multiple settings for different tasks



- Saves countless job settings for different label types on a microSD memory card - without reprogramming of the system
- Easy switching for product changeovers prevents plant downtime

+ Robust housing for harsh environments



- IP65 or IP76 metal housing with flexible mounting
- Rugged version for very challenging industrial environments
- Withstands high temperatures, dust and humidity

+ Supports protocols in use all over the world



- Wide communication protocol options allow worldwide application of the system
- Supports TCP/IP, PROFINET, Ethernet UDP, Ethernet/IP, FTP, RS-232, RS-422 and programmable I/Os
- Writes linked results into the output string and receives the expected text

+ Great range of system variants with different camera designs



- Camera design with built-in lens and illumination
- Tailor-made modular design with exchangeable high-power LED and C-mount lens, optionally with filter



Easy commissioning and operation allow for simple system integration into the production process

+ Compact design reduces costs and space requirements



- Save space and reduce wiring effort with the all-in-one standalone system
- No need for an evaluation unit
- The camera performs all the calculations itself

+ Easy teach-in of fonts enables optimal reading reliability



- Wide selection of fonts included in the system
- Create and supplement your own font sets
- Allows you to read even exotic fonts and symbols

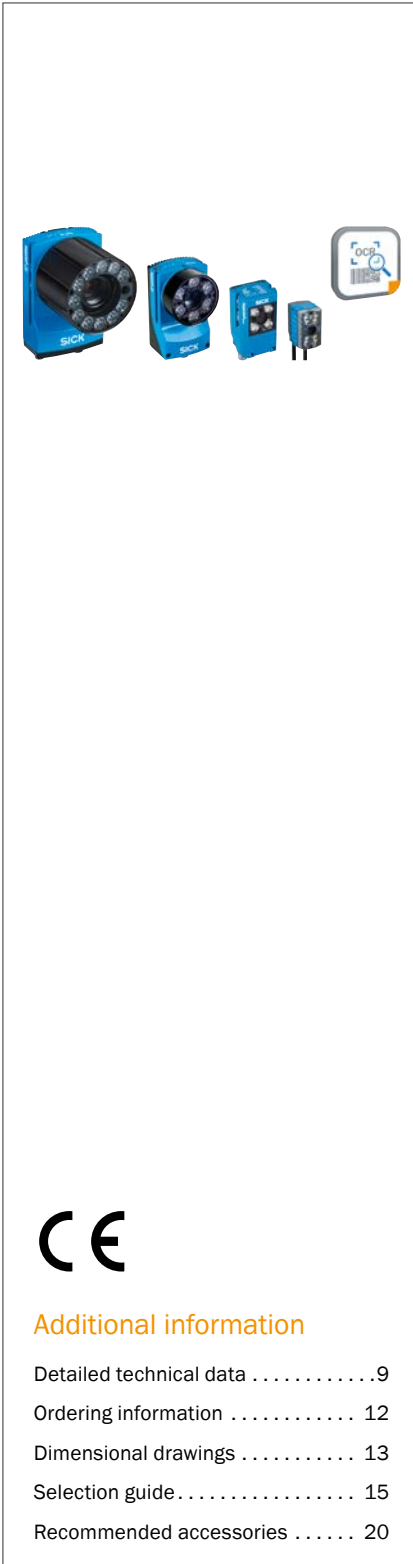
+ User-friendly commissioning and maintenance



- Web interface for easy access and control
- Simple commissioning using a web browser
- No additional software necessary



COMPLEX LABEL INSPECTIONS WITH HIGH PERFORMANCE OCR



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Product description

Label Checker is a multifunctional and easy-to-set compact quality control system designed for various label inspections, with primary focus on optical character recognition. The system improves productivity by performing multiple inspections simultaneously and ensures high quality output. Thanks to the advanced tools, it is not limited to

reading and verifying printed texts, barcodes and 2D codes, but it also checks the correct label position, presence of pictograms, and print quality. Moreover, Label Checker offers image filters and other features such as overlapping characters segmentation and-, image calibration that ensure reliable operation, even in challenging applications.

At a glance

- OCR, 1D, and 2D codes: reading, recognition, validation, verification
- Additional inspections: pattern matching, edge-to-edge measurement, pixel counter, blob inspection, shape locator, print quality check
- Easy teach-in of custom font
- Flexible range of C-mount lens and integrated illumination
- Web-based user interface

Your benefits

- Compact all-in-one system
- Multifunctional by combining various label inspections
- High reliability thanks to robust deep-learning-based algorithms
- Improved inspection on uneven surfaces due to real-time correction of image errors (rectification)
- Easy set-up and configuration via web interface
- Flexible optical design and high-power illumination, able to fit almost any application
- Rugged housing, ideal for harsh ambient conditions
- Multiple programs and job switching

→ www.sick.com/Label_Checker

For more information, simply enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples, and much more.



Detailed technical data

The exact device specifications and performance data of the product may deviate from the information provided here, and depend on the application in which the product is being used and the relevant customer specifications.

General notes

	LBC65x	LBC642	LBC63x	LBC621-x	LBC611-x
Items supplied	InspectorP V2D654P / InspectorP V2D652P (depending on type) LabelChecker software	InspectorP V2D642P LabelChecker software	InspectorP V2D632P-2MX-CXB0 / InspectorP V2D631P (depending on type) LabelChecker software	InspectorP V2D621P-2MSFFB5 / InspectorP V2D621P-2MD-FGB5 / InspectorP V2D621P-2MS-FBB5 (depending on type) LabelChecker software	InspectorP V2D611P-MMS-BE4 / InspectorP V2D611P-MMSCE4 (depending on type) LabelChecker software

Features

	LBC65x	LBC642	LBC63x	LBC621-x	LBC611-x
Applications	OCR OCV Bar code and 2D code reading Advanced inspections				
Task	OCR Presence inspection Code reading Quality inspection				
Industries	Food and beverage Automotive and parts suppliers Packaging Health care manufacturing Consumer goods Electronics and solar Retail and warehousing				
Light source	Illumination LEDs: (to be ordered separately as accessories) Laser alignment aid: visible red light ($\lambda = 630 \text{ nm} \dots 680 \text{ nm}$)			LED, visible red light, 617 nm, $\pm 15 \text{ nm}$ LED, infrared, 850 nm, $\pm 25 \text{ nm}$ (depending on type)	LED, visible amber light, 617 nm, $\pm 50 \text{ nm}$
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)			1, complies with 21 CFR 1040.10 except for the conformance according to "Laser Notice No. 56" from May 8, 2019 (IEC 60825-1:2014, EN 60825-1:2014)	
Focus	Adjustable focus (manually)			Adjustable focus (electric)	Adjustable focus (manually)

	LBC65x	LBC642	LBC63x	LBC621-x	LBC611-x
Sensor	CMOS matrix sensor, grayscale values, 4.2 Mpixel, 2,048 px, 2,048 px CMOS matrix sensor, grayscale values, 2.1 Mpixel, 2,048 px, 1,088 px (depending on type)	CMOS matrix sensor, grayscale values, 1.7 Mpixel, 1,600 px, 1,088 px	CMOS matrix sensor, grayscale values, 1.9 Mpixel, 1,600 px, 1,200 px CMOS matrix sensor, grayscale values, 1.3 Mpixel, 1,280 px, 1,024 px (depending on type)	CMOS matrix sensor, grayscale values, 1.3 Mpixel, 1,280 px, 1,024 px	CMOS matrix sensor, grayscale values, 1.3 Mpixel, 1,280 px, 960 px
Spectral range	Approx. 400 nm ... 900 nm				
Lens	C-mount			-	
Focal length	-			17.1 mm / 9.6 mm (depending on type) 6 mm / 12 mm (depending on type)	

Performance

	LBC65x	LBC642	LBC63x	LBC621-x	LBC611-x
Bar code types	2/5 Industrial Interleaved 2 of 5 Codabar Code 39 Code 93 Code 128 EAN-8 EAN13 Pharmacode			2/5 Industrial Interleaved 2 of 5 Codabar Code 39 Code 93 Code 128 EAN-8 EAN13 Pharmacode GS1-128 / EAN 128 Code 32 UPC-A UPC-E GS1, various types MSI	
2D code types	Data Matrix ECC200 QR code Micro QR code PDF417 Aztec				
OCR/OCV fonts	Universal, industrial, document, DotPrint, pharma, OCR-A, OCR-B, Arabic numbers				
Optical format	1"		1/1.8"		1/3"

Interfaces

	LBC65x	LBC642	LBC63x	LBC621-x	LBC611-x
Ethernet	✓, TCP/IP				
Function	EtherNet/IP UDP / PROFINET FTP HTTP			EtherNet/IP UDP PROFINET (on request)	
Data transmission rate	10/100/1,000 Mbit/s			10/100 MBit/s	

	LBC65x	LBC642	LBC63x	LBC621-x	LBC611-x
Protocol	-			FTP HTTP	
Serial (RS-232, RS-422)			✓		
Data transmission rate	-		(300 Baud ... 115.2 kBaud)	-	
Serial (RS-232)					✓
Data transmission rate	-				(300 Baud ... 115.2 kBaud)
Operator interface	Web server				
Optical indicators	10 x status display, 10 x LED bar graph, 1 green feedback spot		5 x status display, 5 x LED bar graph, 1 green/red feedback spot	16, LEDs, 5 x status display, 5 x LED bar graph, 1 green/red feedback spot	9, LEDs, 6 x status display, 2 x LED alignment aids, 1 x feedback spot
Data storage and retrieval	Image and data logging via microSD memory card and external FTP			-	
Acoustic indicators	Beeper				-

Mechanics/electronics

	LBC65x	LBC642	LBC63x	LBC621-x	LBC611-x
Dimensions, system (L x W x H)	142 mm x 90 mm x 46 mm (only housing without lens and protective hood)		108 mm x 63 mm x 46 mm (only housing without lens and protective hood)	71 mm x 43 mm x 35.6 mm	50 mm x 40.3 mm x 29.6 mm
Enclosure rating	IP65 (EN 60529 (1991-10), EN 60529/A2 (2002-02))		IP67 (EN 60529 (1991-10), EN 60529/A2 (2002-02))	IP65	IP54 (EN 60529, EN 60529/A2)
Protection class	III (EN 60950-1 (2014-08))			III	
Power consumption	Typ. 10 W, ± 20 %			Typ. 4 W	Typ. 3.5 W
Housing material	Aluminum die cast				
Output current	≤ 100 mA				
Connections	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)		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) 1 x M12, 4-pin male connector (external illumination)	1 x M12, 17-pin male connector (serial, I/Os, voltage supply) 1 x M12, 4-pin female connector (Ethernet)	
Supply voltage	24 V DC, ± 20 %		12 V DC ... 24 V DC, ± 20 %		12 V DC ... 24 V DC, ± 15 %
Window material	Glass		PMMA	PMMA / Glass (depending on type)	PMMA
Weight	635 g		430 g	170 g	165 g

Ambient data

	LBC65x	LBC642	LBC63x	LBC621-x	LBC611-x
Ambient temperature, operation ¹⁾	0 °C ... +50 °C				0 °C ... +40 °C
Ambient temperature, storage ¹⁾	-20 °C ... +70 °C				
Shock load	EN 60068-2-27:2009-05				
Vibration load	EN 60068-2-6:2008-02				

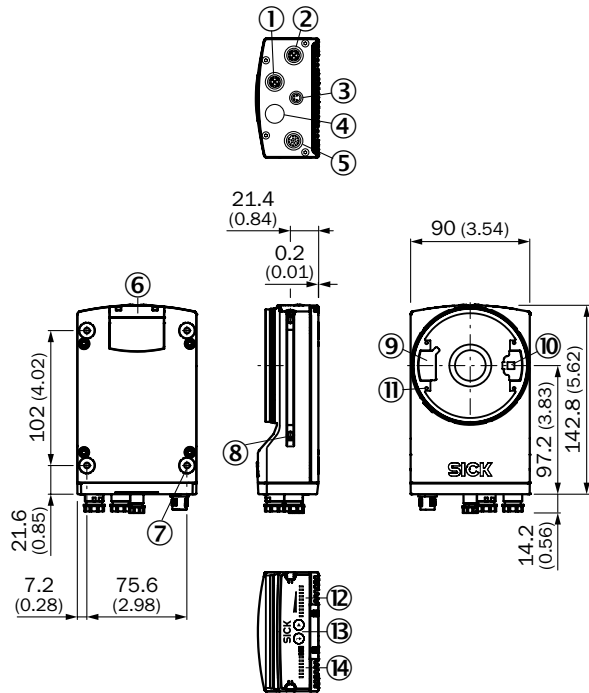
¹⁾ Permissible relative air humidity: 0 % ... 90 % (non-condensing).

Ordering information

Sensor	Type	Part no.
CMOS matrix sensor, grayscale values 4.2 Mpixel 2,048 px 2,048 px	LBC654	1086947
CMOS matrix sensor, grayscale values 2.1 Mpixel 2,048 px 1,088 px	LBC652	1091686
CMOS matrix sensor, grayscale values 1.7 Mpixel 1,600 px 1,088 px	LBC642	1091687
CMOS matrix sensor, grayscale values 1.9 Mpixel 1,600 px 1,200 px	LBC632	1091688
CMOS matrix sensor, grayscale values 1.3 Mpixel 1,280 px 1,024 px	LBC631	1091689
	LBC621-17RB	1115469
	LBC621-17NIR	1115470
	LBC621-10RB	1115468
CMOS matrix sensor, grayscale values 1.3 Mpixel 1,280 px 960 px	LBC611-06AB	1120348
	LBC611-12AB	1120347

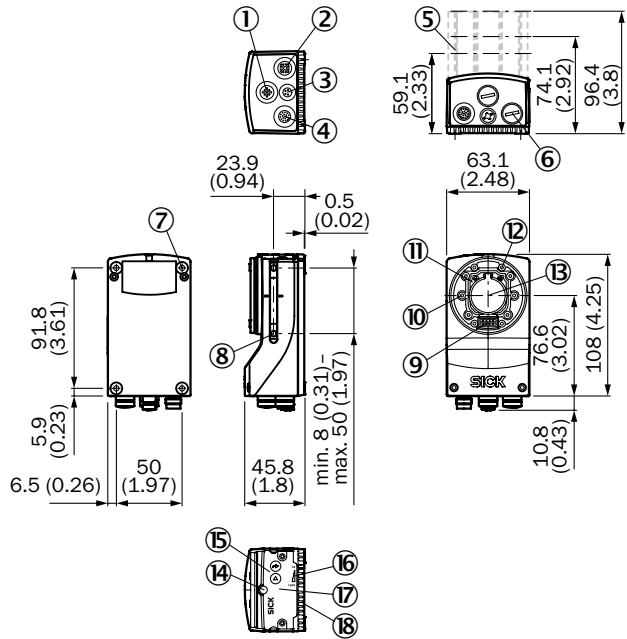
Dimensional drawings (Dimensions in mm (inch))

LBC65x / LBC642



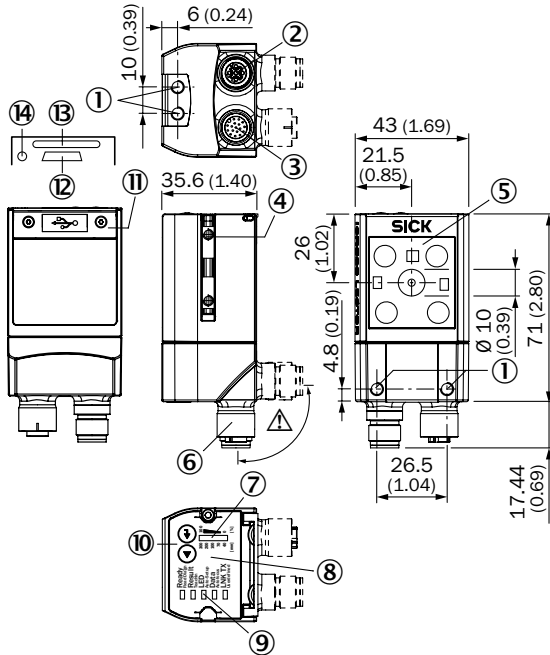
- ① "Ethernet" P1 connection
- ② P3 connection "Ethernet"
- ③ X2 "USB" connection or "trigger external lighting", depending on type
- ④ P2 connection "CAN OUT", depending on type
- ⑤ X1 "Power/Serial Data/CAN/I/O" connection or "CAN IN", depending on type
- ⑥ Cover for the microSD memory card
- ⑦ M5 blind tapped holes, 5 mm deep (4 x), for mounting the sensor
- ⑧ Sliding nut M5, 5.5 mm deep (2 x), for mounting (as alternative)
- ⑨ Plug connector for connecting the integrated lighting
- ⑩ Laser alignment aid exit
- ⑪ 2.5 mm blind tapped holes (4 x) for mounting the spacers for the integrable illumination
- ⑫ Bar graph display
- ⑬ Function button (2 x)
- ⑭ LED for status display (2 levels), 10 x

LBC63x



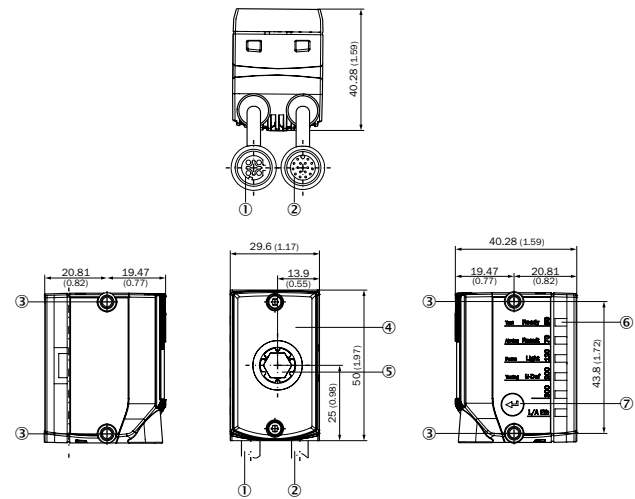
- ① "External light" connection (external illumination unit, female connector, M12, 4-pin, A-coded)
- ② "Ethernet" connection (Gigabit Ethernet, female connector, M12, 8-pin, X-coded)
- ③ "USB" connection (female connector, type M8, 4-pin), for temporary use as a service interface only
- ④ "Power/Serial Data/CAN/I/O" connection (male connector, M12, 17-pin, A-coded)
- ⑤ Optics protective hood (length: 22.7 mm, 37.7 mm or 60 mm)
- ⑥ 4 protective caps for sealing off the electrical connections as required for enclosure rating IP67 (delivery condition)
- ⑦ 4 tapped blind holes, M5, 5.5 mm deep for mounting the device
- ⑧ 2 sliding nuts, M5, 5.5 mm deep, as an alternative method of mounting the device
- ⑨ Connection for an integrable illumination unit (VI55I ring illumination unit)
- ⑩ 2 laser alignment aids
- ⑪ S-mount or C-mount optics module
- ⑫ 4 blind tapped holes, 2.5 mm for mounting the spacers for the integrable illumination (VI55I ring illumination unit)
- ⑬ Optical axis and center of the image sensor
- ⑭ Basic device: Manual focus screw for an S-mount lens, accessible via the round opening in the housing cover. To secure the focus setting, cover the round opening with a self-adhesive label. Complete device: The opening is already covered by a label.
- ⑮ 2 function keys
- ⑯ 5 bar graph LEDs
- ⑰ Hinged cover on the top side of the device, access to the microSD memory card and the manual focus screw (S-mount)
- ⑱ 5 status LEDs (2 levels)

LBC621-x



- ① M5 blind tapped holes, 5 mm deep (4 x), for mounting the sensor
- ② "Ethernet" connection, 4-pin M12 female connector, D-coded
- ③ "Power/Serial Data/CAN/I/O" connection, 17-pin M12 male connector, A-coded
- ④ Sliding nut M5, 5.5 mm deep (2 x), for mounting (as alternative)
- ⑤ Reading window with internal illumination LEDs (4 x)
- ⑥ Swivel connector unit
- ⑦ Bar graph
- ⑧ Beeper (under housing cover)
- ⑨ LEDs for status display (2 levels), 5 x
- ⑩ Function button (2 x)
- ⑪ Cover (flap)
- ⑫ "USB" connection (female connector, 5-pin, type Micro-B) interface for temporary use (service)
- ⑬ Slot for microSD memory card
- ⑭ LED for microSD memory card

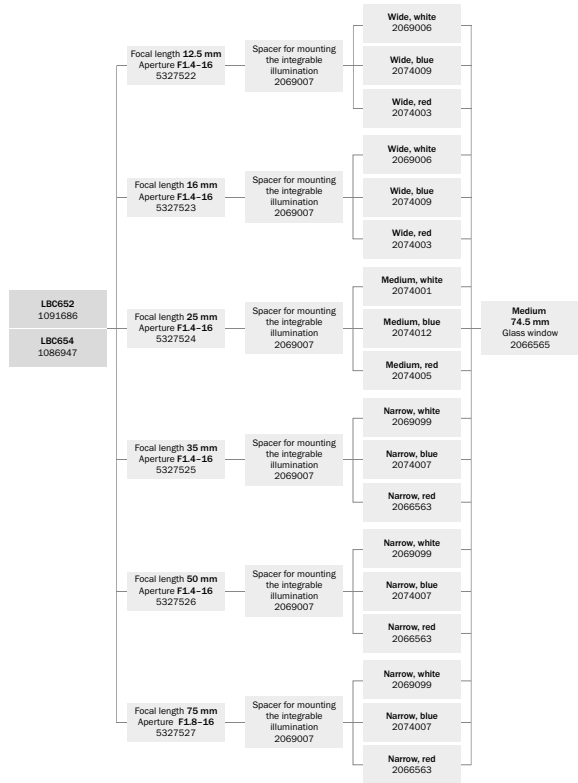
LBC611-x



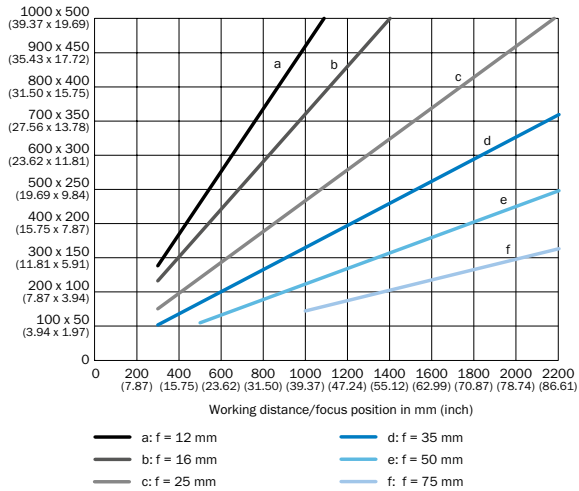
- ① Connecting cable with "Ethernet" connection (female connector, M12, 4-pin, D-coded), length of cable: 0.25 m
- ② Connecting cable with "Power/Serial Data/CAN/I/O" connection (male connector, M12, 17-pin, A-coded), length of cable: 0.35 m
- ③ 4 x M4 blind tapped holes, 6.4 mm deep for mounting the device
- ④ Viewing window with 8 integrated illumination LEDs, 2 LED alignment aids, 1 feedback LED, 1 time-of-flight sensor
- ⑤ Optics, manual focus adjustment with the help of a focus adjustment tool
- ⑥ 6 status LEDs to display the focus position and working distance, device status and device function (3 display levels)
- ⑦ Function key

Selection guide

LBC65x

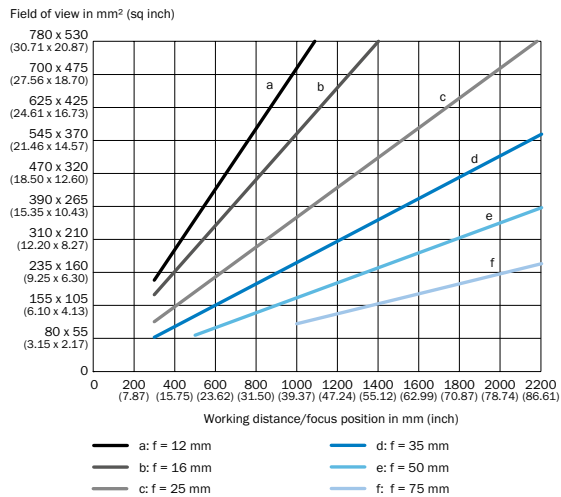
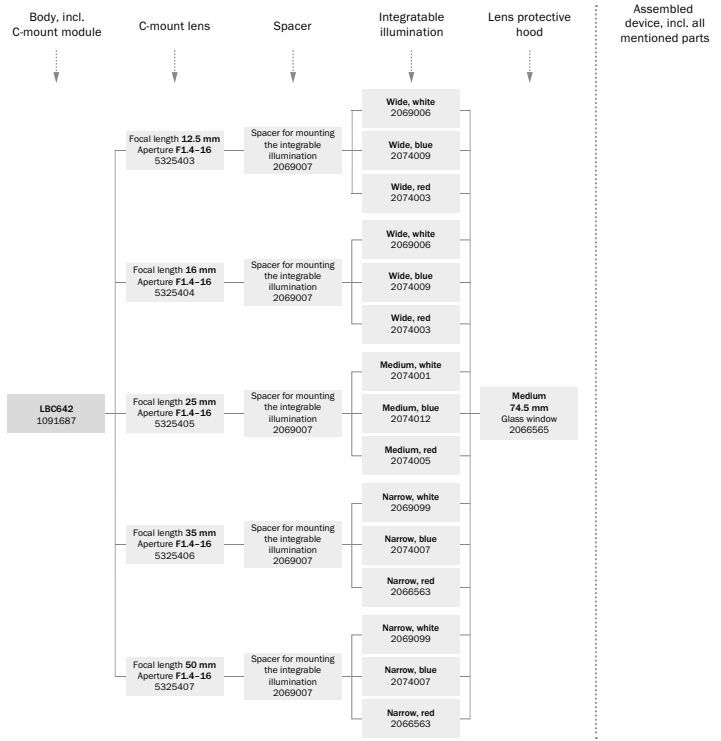


Field of view in mm² (sq inch)



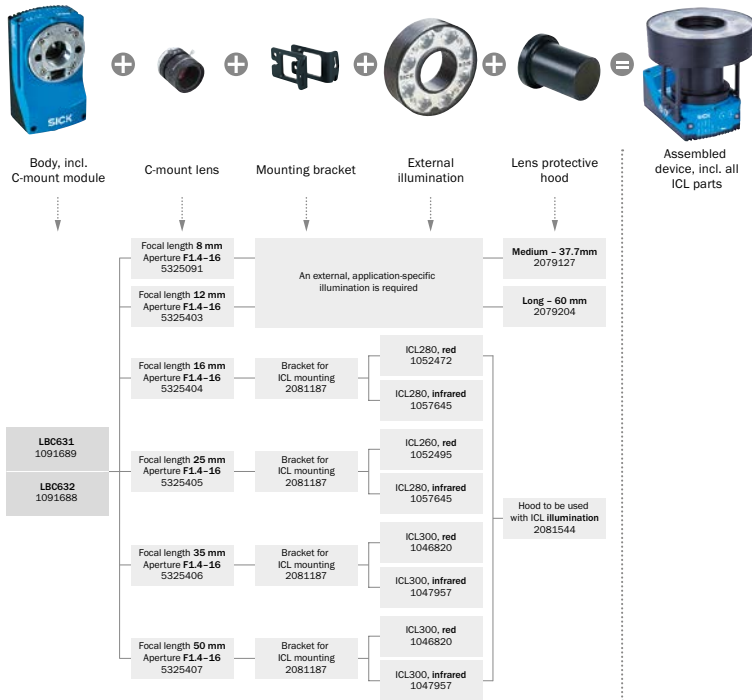
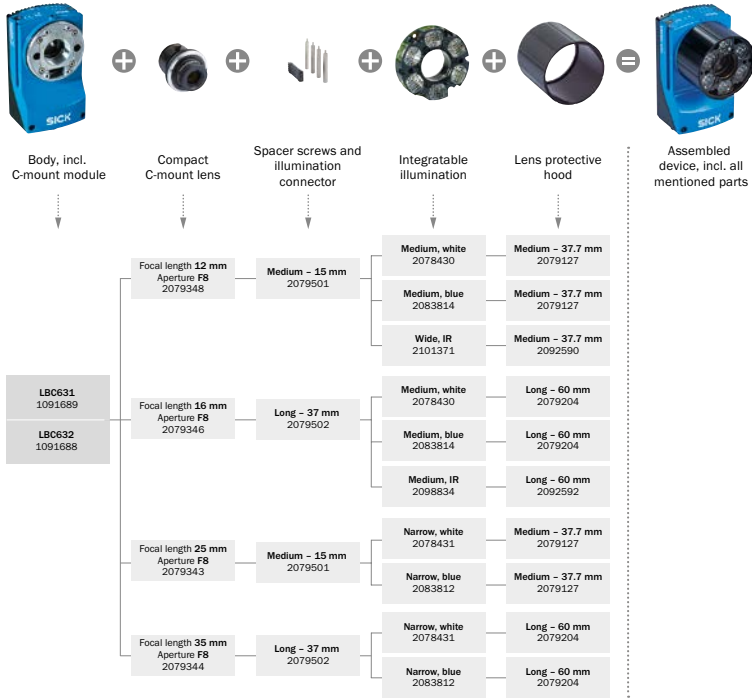
- ① Field of view: horizontal x vertical in mm
- ② Approximate resolution in mm/px
- ③ Lens focal length
- ④ Working distance/Focus position in mm

LBC642

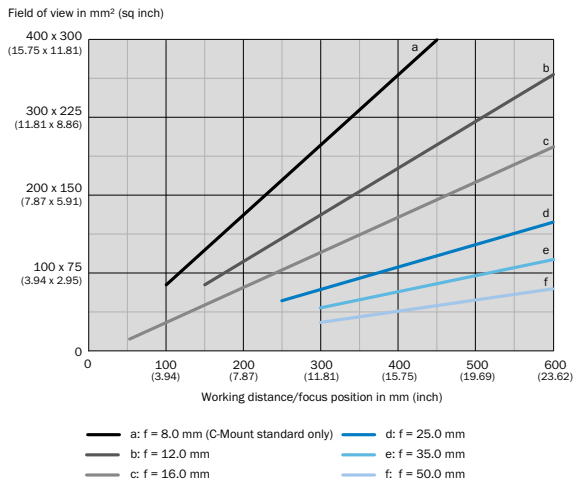
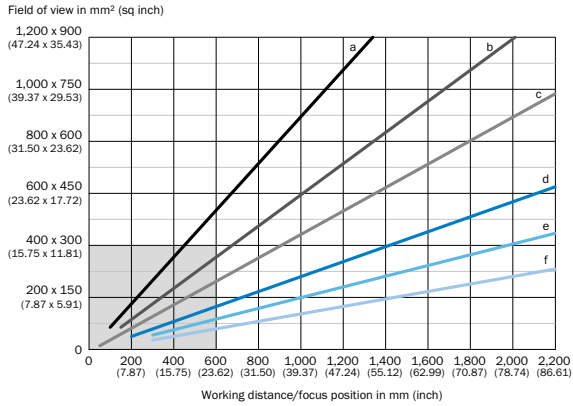


- ① Field of view: horizontal x vertical in mm
- ② Approximate resolution in mm/px
- ③ Lens focal length
- ④ Working distance/Focus position in mm

LBC63x



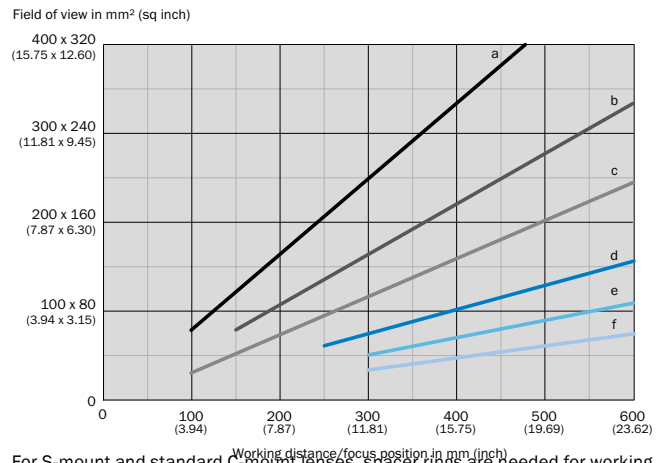
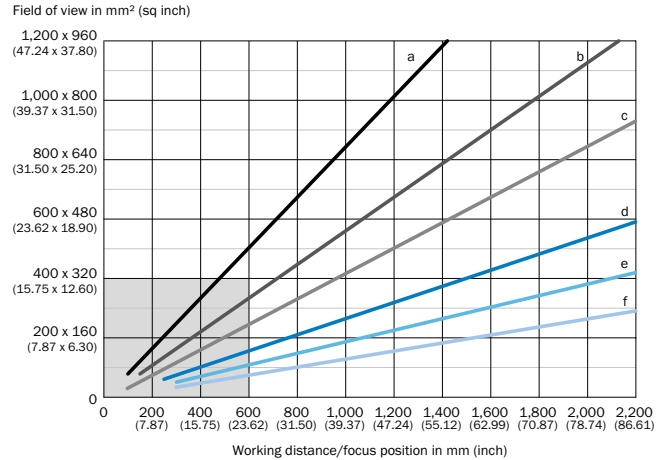
LBC632



For S-mount and standard C-mount lenses, spacer rings are needed for working distances shorter than approximately 10 times the focal length. For compact C-mount lenses, spacer rings are not needed, but the built-in illumination cannot be used for distances shorter than 300 mm.

- ① Field of view: horizontal x vertical in mm
- ② Approximate resolution in mm/px
- ③ Lens focal length
- ④ Working distance/Focus position in mm

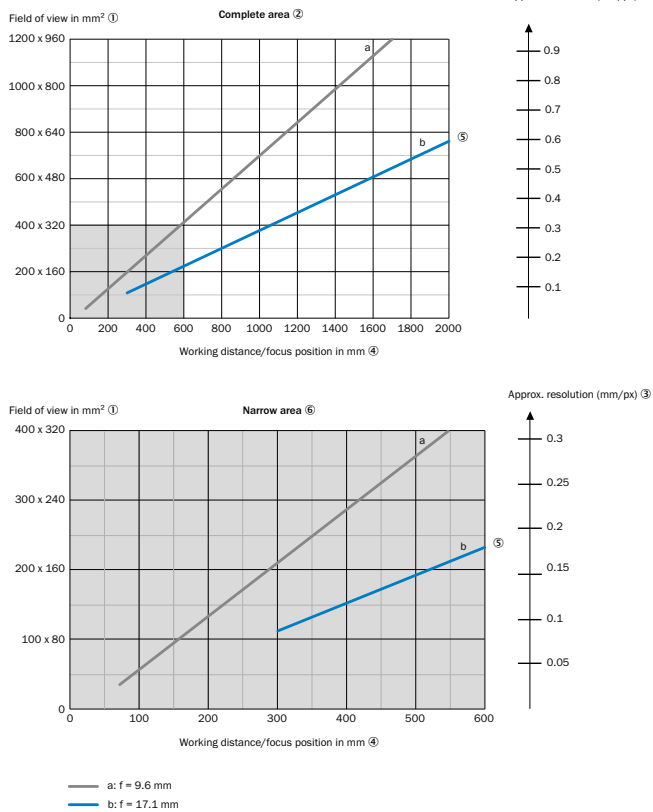
LBC631



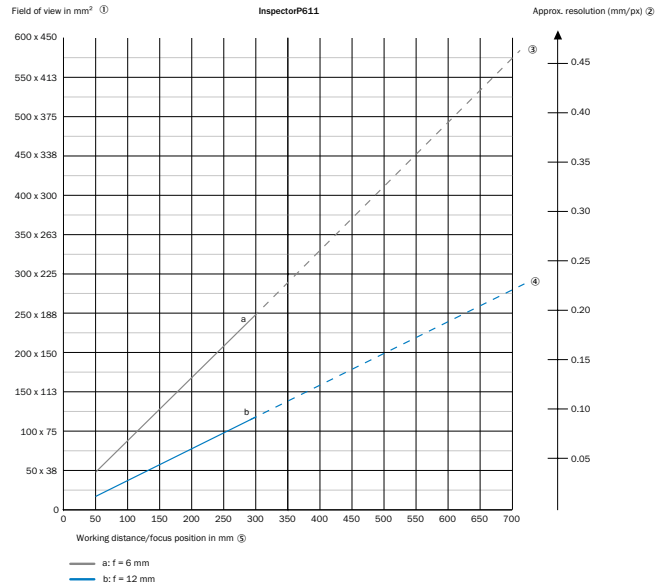
For S-mount and standard C-mount lenses, spacer rings are needed for working distances shorter than approximately 10 times the focal length. For compact C-mount lenses, spacer rings are not needed, but the built-in illumination cannot be used for distances shorter than 300 mm.

- ① Field of view: horizontal x vertical in mm
- ② Approximate resolution in mm/px
- ③ Lens focal length
- ④ Working distance/Focus position in mm

LBC621-x



LBC611-x



Take into account the following aspects when designing the application: the field of view geometry of the device, and the position of the field of view in the space in front of the device. Possible angles at which the objects can arise in relation to the device. For the planned working distance: resultant field of view length and width as well as the approximate resolution.

- ① Field of view: horizontal x vertical in mm
- ② Complete area
- ③ Approximate resolution in mm/px
- ④ Working distance/Focus position in mm
- ⑤ Focal length of lens, here example for f = 17.1 mm
- ⑥ Narrow area

Take into account the following aspects when designing the application: the field of view geometry of the device, and the position of the field of view in the space in front of the device. Possible angles at which the objects can arise in relation to the device. For the planned working distance: resultant field of view length and width as well as the approximate resolution.

- ① Field of view: horizontal x vertical in mm
- ② Approximate resolution in mm/px
- ③ F = 6 mm. Solid line with internal lighting, and dashed line with appropriate external illumination accessories.
- ④ F = 12 mm. Solid line with internal lighting, and dashed line with appropriate external illumination accessories.
- ⑤ Working distance/Focus position in mm
- ⑥ With external illumination

Recommended accessories


















Figure	Brief description	Type	Part no.	LBC654	LBC652	LBC642	LBC632	LBC631	LBC621-17RB	LBC621-17NIR	LBC621-10RB	LBC611-06AB	LBC611-12AB
Mounting brackets and plates													
	Mounting bracket set consisting of mounting bracket, cooling plate, includes angle display for setting the tilt angle	Mounting bracket	2076735	-	-	-	●	●	-	-	-	-	-
	Bracket with adapter board	Mounting bracket	2042902	-	-	-	-	-	●	●	●	-	-
	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	●	●	●	●	●	-	-	-	-	-
Terminal and alignment brackets													
 Illustration may differ	Distance bracket and light extension connector (medium) for mounting integratable lighting, length 15 mm, used with compact C-mount lenses with focal length of 12 mm or 25 mm and S-mount lens with focal length 25mm	Distance bracket	2079501	-	-	-	●	●	-	-	-	-	-
	Spacer for mounting the integratable illumination, length: 51.3 mm	Spacer	2069007	-	-	●	-	-	-	-	-	-	-
Lenses and accessories													
 Illustration may differ	C-mount 1/1.8", focal length 25 mm, aperture 1.4 - 16, 35 mm (Without C-mount thread)	C-mount lens	5325405	-	-	●	-	-	-	-	-	-	-
	Compact C-mount 2/3", focal length 12 mm, aperture 8	C-mount lens	2079348	-	-	-	●	●	-	-	-	-	-
	Optics kit 03 incl. lens with focal distance 25 mm, white illumination, spacer and optics protective hood	Optics kit 03	1064793	●	●	-	-	-	-	-	-	-	-
	Lens protective hood medium, enclosure rating IP 67, length 37.7 mm, PMMA, used with compact C-mount lenses with focal length of 12 mm or 25 mm and S-mount lens with focal length 25mm	Optics protective hood (PMMA)	2079127	-	-	-	●	●	-	-	-	-	-
	Optics protective hood, IP 65 enclosure rating, length: 74,5 mm, glass window	Protective hood for optical chamber	2066565	-	-	●	-	-	-	-	-	-	-
Illuminations													
	Integratable lighting, lighting color white, medium, suitable for S-mount and compact C-mount lenses with a focal length of 12 mm, 16 mm and 17.5 mm	VI55I-WH1441M0	2078430	-	-	-	●	●	-	-	-	-	-
 Illustration may differ	Integratable lighting, lighting color white, medium, suitable for lenses with a focal length of 25 mm	VI83I-WH1441M0	2074001	-	-	●	-	-	-	-	-	-	-

Figure	Brief description	Type	Part no.	LBC654	LBC652	LBC642	LBC632	LBC631	LBC621-17RB	LBC621-17NIR	LBC621-10RB	LBC611-06AB	LBC611-12AB
Plug connectors and cables													
	Head A: female connector, M12, 17-pin, straight, A-coded Head B: Flying leads Cable: Power, serial, CAN, digital I/Os, suitable for 2 A, Changed color coding of the flying leads, PE-X, shielded, 3 m	YF2ASD-030XXX-LECX	2070425	●	●	●	●	●	-	-	-	-	-
	Head A: female connector, M12, 17-pin, straight, A-coded Head B: male connector, M12, 17-pin, straight, A-coded Cable: Power, serial, CAN, digital I/Os, suitable for 2 A, shielded, 3 m	YM2A8D-030XXX-F2A8D	6051194	-	-	-	-	-	●	●	●	●	●
	Head A: male connector, M12, 4-pin, straight, D-coded Head B: male connector, RJ45, 4-pin, straight Cable: Ethernet, PROFINET, PUR, halogen-free, shielded, 2 m	YM2D24-020PN1MRJA4	2106182	-	-	-	-	-	●	●	●	●	●
 Illustration may differ	Head A: male connector, M12, 8-pin, straight, X-coded Head B: male connector, RJ45, 8-pin, straight Cable: Gigabit Ethernet, twisted pair, PUR, halogen-free, shielded, 2 m	YM2X18-020EG2M-RJA8	6049728	●	●	●	●	●	-	-	-	-	-

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