

SCANNER Operating Manual – SICK ICR620E



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1 General Notes

By means of the scanner option the immediate verification of printed bar codes is possible. Moreover errors such as defective printhead, transfer ribbons etc. can be avoided.

The bar code scanner is a state-of-the-art device which complies with the recognized safety-related rules and regulations. Despite this, a danger to life and limb of the user or third parties could arise and the bar code scanner or other property could be damaged while operating the device.

The bar code scanner may only be used while in proper working order and for the intended purpose. Users must be safe, aware of potential dangers and must comply with the operating instructions. Faults, in particular those which affect safety, must be remedied immediately.

1.1 Environmentally-Friendly Disposal

Manufacturers of B2B equipment are obliged to take back and dispose of old equipment that was manufactured after 13 August 2005. As a principle, this old equipment may not be delivered to communal collecting points. It may only be organised, used and disposed of by the manufacturer. Valentin products accordingly labelled can therefore be returned to Carl Valentin GmbH.

This way, you can be sure your old equipment will be disposed of correctly.

Carl Valentin GmbH thereby fulfils all obligations regarding timely disposal of old equipment and facilitates the smooth reselling of these products. Please understand that we can only take back equipment that is sent free of carriage charges.

The electronics board of the printing system is equipped with a battery. This must only be discarded in battery collection containers or by public waste management authorities.

Further information on the WEEE directive is available on our website www.carl-valentin.de.

1.2 Product Description



Figure 1

Intelligent decoding algorithms for maximum reading performance and high throughput, even with highly reflective or contaminated codes.

Variable illumination concept ensures stable reading even in changing light conditions.

Maximum reliability on shiny or reflective surfaces thanks to flexible optical accessories.

Automated setup wizard with auto focus and aiming laser makes commissioning faster and more cost-effective.

2 Technical Data

Features	
Focus	Adjustable focus (electric)
Sensor	CMOS matrix sensor, grey values
Sensor resolution	752 px x 480 px (WVGA)
Internal lighting	Red
Light source	Illumination LEDs: visible red light (λ = 617 ± 15 nm) Feedback spot: visible green light(λ = 525 ± 15 nm)
LED class	1 (IEC 62471:2006-07, EN 62471:2008-09)
Scanning frequency	25 Hz, WVGA resolution
Code resolution	≥ 0.1 mm (valid for DataMatrix, PDF417 and 1D bar codes with good print quality)
Reading distance	40 mm 1,500 mm (valid for DataMatrix, PDF417 and 1D bar codes with good print quality)
Lens	Integrated
Focal length	7 mm
Mechanics/electronics	
Electrical connection	1 x 15-pin D-Sub HD male connector (0.9 m)
Supply voltage	10 V DC 30 V DC when connecting to the printer: 24 V DC
Power consumption	Тур 3 W
Output current	≤ 100 mA
Housing	Aluminum die cast
Housing color	Light blue (RAL 5012)
Enclosure rating	IP65 (EN 60529 (1991-10), EN 60529/A2 (2002-02))
Protection class	111
Electical safety	EN 60950-1 (2006-04) / EN 60950-1/A11 (2009-03)
Weight	170 g
Dimensions (L x W x H)	71 mm x 43 mm x 35,6 mm
MTBF	75,000 h
Performance	
Readable code structures	1D, Stacked, 2D
Bar code types	GS1-128 / EAN 128, UPC / GTIN / EAN, 2/5 Interleaved, Pharmacode, GS1 DataBar, Code 39,Code 128, Codabar, Code 32, Code 93
2D bar code types	DataMatrix ECC200, GS1 DataMatrix, PDF417, PDF417 Truncated, QR-Code
No. of codes per reading interval	1 50
No. of characters per reading interval	500 (for multiplexer function in CAN operation)
Transport speed	2 m/s

Interfaces			
Serial	RS 232, RS 422		
Function	Host, AUX		
Data transmission range	0.3 kBaud 115.2 kBaud, AUX: 57.6 kBaud (RS-232)		
USB			
Remark	USB 2.0 (for parameterization only)		
Function	AUX		
Reading pulse	Digital inputs, non-powered, serial interface, CAN, auto pulse, presentaiton mode		
Optical indicators	16 LEDs (5 x status display, 10 x LED bar graph, 1 green feedback spot)		
Acoustic indicators	Beeper/buzzer (can be switched off, can be assigned a function to signal a result)		
Operating elements	2 buttons (choose and start/stop functions)		
Configuration software	SOPAS ET		
Data sorage and retrieval	Image and data storage via micro SD memory card and external FTP		
Maximum encoder frequency	300 Hz		
Exnernal illumination control	Via digital ouput (max 24 V trigger)		
Ambient data			
Electromagnetic compatibility (EMV)	EN 61000-6-2 (2006-03) / EN 61000-6-2 (2009-05)		
Vibration resistance	EN 60068-2-6:2008-02		
Shock resistance	EN 60068-2-27:2009-05		
Ambient operating temperature	0 °C +50 °C		
Storage temperature	−20 °C +70 °C		
Permissible relative humidity	90 %, non-condensing		
Ambient light immunity	2,000 lx, on code		

3 Installation of Scanner Bracket

3.1 Spectra II



Risk of death via electric shock!

⇒ Before installation/dismantling of the option scanner, disconnect the label printer from the mains supply and wait for a moment until the power supply unit has discharged.



Figure 2

- 1. Open the right printer cover.
- 2. Remove the lower front panel.
- Fasten the scanner bracket (B) with the fixing screws (C) at the printer (A).
 It is important to pay attention to the plug connection!
- 4. Insert the label material (as described in the operating manual).

3.2 Vario III



DANGER!

Risk of death via electric shock!

⇒ Before installation/dismantling of the option scanner, disconnect the label printer from the mains supply and wait for a moment until the power supply unit has discharged.



Figure 3

- 1. Open the right printer cover.
- 2. Remove the lower front panel.
- Fasten the scanner bracket (B) with the fixing screws (C) at the printer (A).
 It is important to pay attention to the plug connection!
- 4. Insert the label material (as described in the operating manual).

4 Configuration

The ICR620E must be configured accordingly to operate on a Spectra II or Vario III. For this, the PC software *SOPAS Engineering Tool* can be downloaded from the SICK webseite (www.sick.com). After installing the software, the scanner must be connected to the PC with a micro USB cable. The micro USB socket is located on the back of the scanner behind a black cover that is attached with two screws. To release the two screws, a corresponding key is supplied with the scanner.

Spectra II: Alternatively, the scanner can be configured using the serial interface (D-SUB 9-pin) that is integrated in the scanner bracket with a 1:1 cable.

4.1 Settings of the Scanner Software

After starting the software SOPAS ET, it searches for the connected scanner and displays it on the user interface.

LECTOR620 ECO (not d				
	ONLINE			
(BKC	ABMELDEN			
Version: V2.01-09.01.2015				
Serial Number: 16110087				
Serial: COM1				
Online				



By double-clicking on the scanner symbol or by clicking 'Open device window ...' in the context menu, the device window is opened (standard or advanced). In the advanced display, a tree structure is displayed on the left side. Different parameter ranges can be selected there.

4	LECTOR620 ECO (not defined)
	📄 Online Image
	📄 Stored Data
	🔺 📫 Parameter
	Reading Configuration
	Increment Configuration
	🕨 📫 Code Config
	Data Processing
	🕨 🥥 Analysis Tools
	Metwork / Interface / IOs
	Service
	Analysis

Figure 5

After selecting a parameter range, the corresponding parameters are displayed on the right side and can be changed there.

4.1.1 Reading Configuration

Various settings regarding camera and illumination can be made.

Reading	Distance		
Reading dis	itance 79 🗘	mm	
Shutter 1	lime		
Shutter tim	e	.11	200 µs
Image se	ttings		
Brightness]	10
Contrast			10 %
			Auto
Image fil	ter		
Noise redu	tion Off V		

Figure 6

Camera

Illumination

Illumination
Internal Left V
External Off V
Green feedback spot Good Read V Duration 500 ms
Increase Performance
Set frame rate (f) manually
Used frame rate 0 Request
Image rotation 180°
Image region of interest
0 %
0 %
100 %



Object trigger control

Various settings regarding the signal to start the scanner can be made.

Start/Stop of Object Trigger			
A a	8 b		
Trigger delay Time controlled V			
A. Start by User defined command V		a. Start delay 0 ms	
B. Stop by Trigger source	or Good Read V or Not defined V	b. Stop delay 0 ms	
Trigger echo on	Start command STX 21 ETX		
	Stop command 2 STX 22 ETX		
Reading gate on	Reading gate off		
Trigger Distribution			
Distribute on Disabled V			

Figure 8

Do not change the setting 'Start by / User defined command' because the scanner is to be controlled by the printer which sends the start command (STX)21(ETX) and the stop command (STX)22(ETX).

4.1.2 Code Configuration

Settings regarding the codes to be scanned can be made. An automatic configuration can be performed by placing an existing bar code under the scanner.

General	
Auto	Automatic code configuration

Figure 9

However, it is also possible to change settings manually for the individual code types.

Settings for 1D bar codes

Settings for one-dimensional bar codes can be made. The default settings are selected in such a way that the common 1D bar codes can be read.

1D Symbologies				
Minimum bar widt	h 0.20 mm			
Codabar	\checkmark			
Code 39	✓			
UPC / GTIN / EAN				
2/5 Interleaved				
Code 93				
Code 128 Family				
GS1 DataBar				
Pharmacode				
Stacked symbologies				
PDF 417				
1D Increase Performance				
Code contrast	20% Low 🗸			
Code background	Both ¥			

Figure 10

Set	ting	s	for
2D	bar	C	odes

Settings for two-dimensional bar codes can be made.

2D Symbologies		
Minimum cell size 0.20 mm		
Data Matrix 🗹	魔孩	
QR Code 🗹		
2D Increase Performance		
Code contrast 20% Low 🗸		
Code background Both 🗸		
Code appearance Normal V		
Accelerated code search		

Figure 11

4.1.3 Data Processing

Settings for the data processing can be adjusted here.

Collection of Data		
Timeout 50 ms		
Code summarization		
Separate codes depending on positon		

Figure 12

Output control

Settings for the output control can be adjusted here.

Output Control				
Control	Time controlled V			
Data transmission point	As soon as possible \vee	Output Condition	Good Read	~
Data output mode	Single V			

Figure 13

The default settings for the data transmission point ('as soon as possible') and the output condition ('Good Read') should not be changed.

Evaluation conditions

Use min./ma	x. number of codes V		
neck min. nur	mber of valid codes	Minimum 1	
Check max. number of valid codes 🗹 Maximum 🚺			
aluation (Conditions		
Conditions	Conditions		
Conditions	Conditions (Code content ≜ 123* (Wildcards)) And (Co	de valid (1 or 0) > 0) [Code related]	
Conditions Match 1: MultCodes 1:	Conditions (Code content ≜ 123* (Wildcards)) And (Co (Number of valid codes > 2) [Object related	de valid (1 or 0) > 0) [Code related]	
Conditions Match1: MultCodes1: TeachIn1:	Conditions (Code content ≜ 123* (Wildcards)) And (Co : (Number of valid codes > 2) [Object related (Code length ≥ 4) And (Code length ≤ 50)	de valid (1 or 0) > 0) [Code related]	

Figure 14

Normally no settings are necessary. At print start, the printer sends the number of codes to be scanned (min/max) to the scanner.

Matchcode Match-code teach-in 1 (Standard) ✓ or Teach-in via function buttons Activate teach-in mode Not defined Teach-in Condition Condition TeachIn1 V Invert condition Teach-in code content 🗹 🛛 Teach-in code ID 🗹 🛛 Teach-in code length ◄ Match-code teach-in 2 (Additional) Activate teach-in mode Not defined ~ General Match-code teach-in settings Start teach-in Automatic / static ~ ¥ Allowed code types Activated code types Code configuration Don't change V Save permanent



Normally no settings are necessary.

Filter/sorter for the Filters/Sorters for Output Format 1 output formatting Ø Sorte Field. Field. Code valid (1 or 0) > 0 2 Filters/Sorters for Output Format 2 Ø Sorter Field... R Code valid (1 or 0) > 0 2



Normally no settings are necessary.

Output format	Output Format 1 Image: Constraint of the second s
	Output Format 2
	Heartbeat Format

Figure 17

No changes should be made here, othewise the communication between printer and scanner may not work.

4.1.4 Network/Interfaces/los

Serial

Serial Host	
Output Format	Dutput format 1 V
Baud rate 9	Stop bits 1 V
Data bits / parity	a data bits / no parity v Hardware RS232 v
Enable heartbeat	
Usage of Input Data 🛽 N	lo External Input Data
Serial Auxiliary	
Output Format	Dutput format 1 V
Enable heartbeat	
Usage of Input Data	lo External Input Data

Figure 18

The interface Serial Host is used as connection between the scanner and printer. If the interface parameters (baud rate, etc) are changed, they must be adjusted accordingly in the function menu 'Scanner' of the printer.

Digital inputs	Sensor / Input 1
	Sensitivity Edge V Logic Not inverted V Debouncing 10 ms
	Sensor / Input 2
	Sensitivity Edge V Logic Not inverted V Debouncing 10 ms

Figure 19

No settings are necessary as the scanner is not controlled via the digital inputs.

Digital outputs / beeper

Output / Result 1	
Active Device ready	
Logic Not inverted V	
Output / Result 2	
Active Good Read	Inactive Timer/Tracking 🗸
Logic Not inverted V Control Time controlled V	Duration 100 ms
Beeper	
Beeper Good Read	Volume Off V

Figure 20

No settings are necessary as the digital outputs are not used. If necessary, the beeper can be switched on as feedback from the scanner.

4.2 Saving the Settings in the Scanner

To save the settings in the scanner, in the menu under the device name (LECTOR620E), select the function 'Parameter/Save

permanent'. This can also be done with clicking on the symbol

4.3 Loading a Configuration File

To load an existing configuration file from the PC, the function 'Device/Import SDV file ...' must be selected.

After selecting the file name (*.sdv), the parameters are loaded and can be saved in the scanner as described above.

5 Function Menu Scanner

	5.1	Scanner Mode	
	This display provides the possibility to set the desired scanner mode (Mode), the number of acceptable non-readable (NoRd) as well as the number of label feedings (Flab).		
Operating mode (Mode)	0 =	Off	
	1 =	Mode 1 (data comparison), i.e. bar code date which was read by the scanner is compared with the printed data.	
	2 =	Mode 2 (check readability), i.e. it is only checked if the scanner can read the printed bar codes.	
	3 =	Mode 3 (check readability, graphic), i.e. it is only checked if the scanner can read the printed bar codes. This mode is to use if the bar code is available as graphic (e.g. printing with printer driver). In this case the printer cannot recognize that a bar code is placed onto the label.	
Non-readable (NoRd)	Indica printer Value 1 = the sc 0 = the the	 dication of number of successive non readables, i.e. when the nter indicates an error message. alue range: 0 9 the printer stops at the first label which cannot be red from the scanner and shows an error message. the printer do not stop at non-readable. A message appears at the display only. 	
Label feed (VEti)	In mai printhe 1 and	ny cases the scanner cannot be positioned directly on the ead. In this case, use this parameter to set a label feed between 5. The illustration shows the meaning of this parameter.	
	printhead	scanner with scanner with scanner with scanner with scanner with label feedings = 1 label feedings = 2 label feedings = 3 label feedings = 4 label feedings = 5	
	r		

label 3

direction

label 4

label 5

label 6

label 1

label 2

5.2 Scanner Type

The different scanners are controlled by different commands and/or the scanners return the scanned data in different manners. Therefore this window provides the possibility to select the scanner model corresponding to the connected scanner.

5.3 Scanner Setup

With this parameter, the position of the scanner can be set. However, first of all you have to connect the scanner, select the corresponding scanner model in 'scanner type' window, set the corresponding interface and correctly to set the parameters in the 'interface parameter' window.

After pressing the enter key (red button) the scanner is set to on and tries to read bar codes continuously. In case a bar code is read then the read data is indicated in the display and the scanner is immediately again set to on. Is the scanner in the correct position it starts to flicker. Is the scanner not in the correct position then it is set to on as long as again a bar code is read. The scanner is to position in the way that at feeding labels of 1 the bar code is directly read at the printhead.

5.4 Scan Offset

In scan mode 'while print' the scanner is switched On if the first pixel line is printed (= of bar code which is to scan). The scanner is switched Off either by reading the bar code (Good Read) or explicitly by the printer, if the last pixel line is printed (= of the bar code which is to scan - No Read). By means of this value the switch On and Off position of scanner in printing direction can be shifted.

In scan mode 'after print), the label is advanced by the set offset, before the scanner is switchen On and after scanning again retracted.

5.5 Scan Length

If this parameter is set to 0 (AUTO), the switch on and off position of scanner is calculated by means of position and height of bar code onto the label. If the parameter Scan Length is not 0, so this defines the length of scan sector. The start of scan sector is then set by the parameter 'Scan Offset'.

This parameter is not relevant in scan mode 'after print'

The following drawing shows the meaning of the parameters 'Scan Offset' and 'Scan length'.



Figure 21

5.6 Scan Mode

With this parameter can be adjusted, at which time the scanning of the bar code is to be effected - during printing or after printing.

While printing	The scanning of bar code is effected while the label is printed. By means of the parameter 'number of feeding labels' can be defined which label should be scanned. With the parameters 'Scan offset' and 'Scan length' the scan sector can be specified.
After printing	The scanning of bar code is effected after the label was printed. With the parameter 'Scan delay' the time can be varied between printing the label and switching on the scanner. With the parameter 'Scan timeout' the time can be specified which is available for scanning the label. After successful scanning of bar code the next label is printed and/or in dispensing mode the printer changes to 'waiting' mode.

5.7 Scan Delay

In scan mode 'after print' the scanner is switched On after the label was printed. With this value the time can be specified between printing the label and switching On the scanner.

This parameter is not relevant in scan mode 'while print'.

5.8 Scan Timeout

In scan mode 'after print' can be specified with this value the time which is available for scanning the label. If the parameter 'scan timeout' is set to 0, the printer waits until the bar code could be read. If the bar code is not read withing the fixed time the printer switches Off the scanner again (non readable). When reaching the fixed number of consecutive non-readable an error message appears at the display.

This parameter is not relevant in scan mode 'while print'.

5.9 Interface Parameter

Set the parameter of serial interface at which the scanner is connected to the printer.

COMx	0 = Off 1 = On 2 = On, no error message at interface errors
Baud rate	1200, 2400, 4800, 9600, 19200, 38400, 57600 Baud
P - Parity	N = None O = Odd E = Even
D – Data bits	7, 8 Bits
S – Stop bits	1, 2 Bits

6 Parameter Sets for Scanner Mode

Set scanner operating mode

SOH F C D M - - r M P N F - - - ETB

M: 0 = Off

- M: 1 = Mode 1 (data comparison)
- M: 2 = Mode 2 (check only readability)
- M: 3 = Mode 3 (check only readability, graphic)
- P: 0 = Interface COM1
- P: 1 = Interface COM2

This parameter is ignored because COM2 is always used as scanner interface

- N: = 0 bad readings (NoReads)
- N: 0 = 1 bad readings
- N: 1 = 2 bad readings
- N: 2 = 3 bad readings
- N: 3 = 4 bad readings
- N: 4 = 5 bad readings
- N: 5 = 6 bad readings
- N: 6 = 7 bad readings
- N: 7 = 8 bad readings
- N: 8 = 9 bad readings

Number of consecutive bad readings after which an error message is displayed. With '-' (0 NoReads) no error message occurs, i.e. the print procedure is not interrupted. Only a warning will be shown on the display.

- F: 0 = No label feed (FeedLabel)
- F: 1 = Feed by 1 label
- F: 2 = Feed by 2 labels
- F: 3 = Feed by 3 labels
- F: 4 = Feed by 4 labels
- F: 5 = Feed by 5 labels

Enquire scanner operating mode

SOH F C D M - - w p p p p p p p p ETB

Answer

SOH A M P N F - - - p p p p p p p p ETB

Set scan offset

SOH F C D M A - r N N N N - - - - ETB

N = Scan offset in 1/10 mm

Enquiry scan offset

SOH F C D M A - w p p p p p p p p ETB

Antwort

SOH A N N N N - - - - p p p p p p p p ETB

N = Current scan offset in 1/10 mm

Set scan length

SOH F C D M B - r N N N N - - - - ETB

N = Scan length in 1/10 mm

Enquiry scan length

SOH F C D M B - w p p p p p p p p ETB

Answer

SOH A N N N - - - - p p p p p p p p ETB

N = current scan length in 1/10 mm

Set scan mode

SOH F C D M C - r N N N N - - - - ETB

N: 0 = Scanning while printing N: 1 = Scanning after printing

Enquire scan mode

SOH F C D M C - w p p p p p p p p ETB

Answer

SOH A N - - - - - - p p p p p p p p ETB

N = current scan mode

Set scan delay (scanning after printing)

SOH F C D M D - r N N N N - - - - ETB

N = Scan delay in ms [0 ... 9990]

Enquire scan delay

SOH F C D M D - w p p p p p p p p ETB

Answer

SOH A N N N N - - - p p p p p p p p ETB

N = Current scan delay in ms

Set scan timeout (scanning after printing)

SOH F C D M E - r N N N N - - - - ETB

N = Scan timeout in ms [0 ... 9990]

Enquire scan timeout

SOH F C D M E - w p p p p p p p p ETB

Answer

SOH A N N N N - - - - p p p p p p p p ETB

N = Current scan timeout in ms

Set scanner type

SOH F C D M F - r N N N N - - - - ETB

N: 5 = Zebra DS457 N: 6 = SICK ICR620 N: 7 = SICK CLV6XX

Enquire scanner type

SOH F C D M F - w p p p p p p p p ETB

Answer

SOH A N - - - - - - p p p p p p p p ETB

N = Current set scanner type

6.1 Scanner Variable

In operating mode 1 (data comparison) the printer has to provide the possibility to define the order of bar code data to scan multiple codes onto a label. Because of this reason it is necessary to define the bar code data in the text statements as scanner 'variable'. The text statement has the following structure:

Scanner variable

SOH BM [n] = S V (a ; f) text data ETB

- '=SV' Identification of scanner variable
- a Field active
 - 0 = not active
 - 1 = active, i.e. the code is scanned
- f Field number for definition of code order (1 ...)

Examples

Text fix: (SOH)BM[1]=SV(1;1)123456(ETB)

Text variable (counter): (SOH)BM[1]=SV(1;1)=CN(10;0;4;+1;1)0001(ETB)

7	Error	Messages
=		

Erro	r message	Cause	Remedy
68	Scanner	The connected bar code scanner signals a device error.	Check the connection scanner/printer.
			Check thescanner (dirty).
69	Scanner NoRead	Bad print quality.	Increase the contrast.
		Printhead completely soiled or defective.	Clean the printhead or exchange (if necessary).
		Print speed too high.	Reduce the print speed.
70	Scanner data	Scanned data does not correspond to the data which is to print.	Exchange printhead.
94	Scanner Timeout	The scanner could not read the bar code within the set timeout time.	
		Defective printhead.	Check the printhead.
		Wrinkles in the transfer ribbon.	Check the transfer ribbon.
		Scanner wrong positioned.	Position the scanner correctly,
		Timeout time too short.	feeding.
			Select longer timeout time.

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