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CSMH00x

1D/2D Handheld Scanners



Operating Instructions

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1. General

1.1 Information Concerning these Instructions

- These instructions apply to the product with ID code CSMH00x.
- They make it possible to use the product safely and efficiently.
- These instructions are an integral part of the product and must be kept on hand for the entire duration of its service life.
- · Local accident prevention regulations and national work safety regulations must be complied with as well.
- The product is subject to further technical development, and thus the information contained in these
 operating instructions may also be subject to change. The current version can be found at www.wenglor.
 com in the product's separate download area.



NOTE!

The operating instructions must be read carefully before using the product and must be kept on hand for later reference.

1.2 Explanations of Symbols

- Safety precautions and warnings are emphasized by means of symbols and attention-getting words
- Safe use of the product is only possible if these safety precautions and warnings are adhered to
- The safety precautions and warnings are laid out in accordance with the following principle:



ATTENTION-GETTING WORD!

Type and Source of Danger!

Possible consequences in the event that the hazard is disregarded.

· Measures for averting the hazard.

The meanings of the attention-getting words, as well as the scope of the associated hazards, are listed below.



DANGER!

This word indicates a hazard with a high degree of risk which, if not avoided, results in death or severe injury.



WARNING!

This word indicates a hazard with a medium degree of risk which, if not avoided, may result in death or severe injury.



CAUTION!

This word indicates a hazard with a low degree of risk which, if not avoided, may result in minor or moderate injury.

6 General





ATTENTION!

This word draws attention to a potentially hazardous situation which, if not avoided, may result in property damage.



NOTE!

A note draws attention to useful tips and suggestions, as well as information regarding efficient, error-free use.

1.3 Limitation of Liability

- The product has been developed in consideration of the current state-of-the-art and applicable standards and guidelines. Subject to change without notice.
- A valid declaration of conformity can be accessed at www.wenglor.com in the product's separate download area.
- wenglor sensoric elektronische Geräte GmbH (hereinafter referred to as "wenglor") excludes all liability in the event of:
 - · Non-compliance with the instructions
 - Use of the product for purposes other than those intended
 - · Use by untrained personnel
 - · Use of unapproved replacement parts
 - · Unapproved modification of products
- These operating instructions do not include any guarantees from wenglor with regard to the described procedures or specific product characteristics.
- wenglor assumes no liability for printing errors or other inaccuracies contained in these operating
 instructions, unless wenglor was verifiably aware of such errors at the point in time at which the operating
 instructions were prepared.

1.4 Copyrights

- The contents of these instructions are protected by copyright law.
- · All rights are reserved by wenglor.
- Commercial reproduction or any other commercial use of the provided content and information, in particular graphics and images, is not permitted without previous written consent from wenglor.

2. For Your Safety

2.1 Use for Intended Purpose

This hand scanner is used to decode 1D/2D codes.

This product can be used in the following industry sectors:

- · Automotive industry
- Food industry
- · Packaging industry
- · Pharmaceuticals industry
- Clothing industry
- · Plastics industry
- · Consumer goods industry
- · Paper industry
- · Electronics industry
- · Glass industry
- · Printing industry
- · Special machinery manufacturing
- · Heavy machinery manufacturing
- Logistics
- · Woodworking industry
- · Steel industry
- · Aviation industry
- · Construction industry
- · Chemicals industry
- · Agriculture Industry
- Alternative energy
- · Raw materials extraction

•



2.2 Use for Other than the Intended Purpose

- Not a safety component in accordance with 2006/42/EC (Machinery Directive)
- The product is not suitable for use in potentially explosive atmospheres.
- The product may only be used with accessories supplied or approved by wenglor, or combined with approved products. A list of approved accessories and combination products can be accessed at www.wenglor.com on the product detail page.

DANGER!



Risk of personal injury or property damage in case of use for other than the intended purpose!

Use for other than the intended purpose may lead to hazardous situations.

Observe instructions regarding use for intended purpose.

2.3 Personnel Qualifications

- · Suitable technical training is a prerequisite
- In-house electronics training is required
- Trained personnel must have uninterrupted access to the operating instructions

DANGER



Risk of personal injury or property damage in case of incorrect initial start-up and maintenance!

Personal injury and damage to equipment may occur.

· Adequate training and qualification of personnel.

2.4 Modification of Products



DANGER!

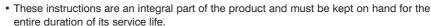
Risk of personal injury or property damage if the product is modified!

Personal injury and damage to equipment may occur. Non-observance may result in loss of the CE marking and the guarantee may be rendered null and void.

• Modification of the product is impermissible.

2.5 General Safety Precautions

NOTE!





- In the event of possible changes, the respectively current version of the operating instructions can be accessed at www.wenglor.com in the product's download area.
- · Read the operating instructions carefully before using the product.
- · Protect the sensor against contamination and mechanical influences.

2.6 Approvals



3. Technical Data

Order Number Technical Data	CSHM001	CSHM002	CSHM003	CSHM004		
Optical data						
Scanning distance		3839	94 mm			
Resolution		1280×9	60 pixels			
Light source		Red	light			
Max. permitted ambient light		97,00	00 lux			
Electrical data						
Supply voltage	5 V DC					
Power consumption	< 2250 mW					
Temperature range	−2055 °C					
Interface	USB RS-232 USB RS-232					
Acoustic signal	Yes					
Vibrational signal	Yes					
Visual signal	Yes					
Mechanical data						
Housing material	Plastic					
Protection	IP54					
Weight	110 g					
Connector type	Cable					
Cable length	180 cm					

10 Technical Data



3.1 Scanning field / working distances

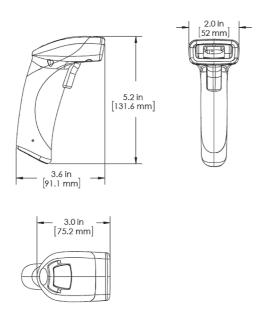
Test code	Minimum distance	Maximal distance
0,076 mm (Code 39)	80 mm	102 mm
0,190 mm (Code 39)	33 mm	182 mm
0,267 mm (GS1 DataBar)	20 mm	220 mm
0,330 mm (UPC)	28 mm	280 mm
0,107 mm (DataMatrix)	48 mm	110 mm
0,127 mm (DataMatrix)	43 mm	115 mm
0,16 mm (DataMatrix)	33 mm	150 mm
0,254 mm (DataMatrix)	20 mm	180 mm
0,528 mm (DataMatrix)	28 mm	343 mm

NOTE!



Working ranges are a combination of both the wide and high density fields. All samples were high quality codes and were read along a physical center line at a 10° angle.
 Default AGC settings were used. Accuracy= +/-10 %.

3.2 Housing Dimensions



3.3 Accessory Products

wenglor can provide you with suitable connection technology for your product.

Suitable mounting technology no.	431
Interface cable	ZDNV001
Interface cable	ZDNV002
Mains power pack	ZNNN001
Mains power pack	ZNNN002
Mounting bracket	Z0075
Mounting bracket	ZSLM001
Gooseneck stand	ZSLM002

3.4 Scope of Delivery

- Product
- USB cable (CSHM001, CSHM003)
- RS-232 cable + power supply (CSHM002, CSHM004)

4. Transport and Storage

4.1 Transport

Upon receipt of shipment, inspect the goods for damage in transit. In the case of damage, conditionally accept the package and notify the manufacturer of the damage. Then return the device making reference to damage in transit.

4.2 Storage

The following points must be taken into condition with regard to storage:

- · Do not store the product outdoors
- · Store the product in a dry, dust-free place
- · Protect the product against mechanical impacts
- · Protect the product against exposure to direct sunlight



ATTENTION!

Risk of property damage in case of improper storage!

The product may be damaged.

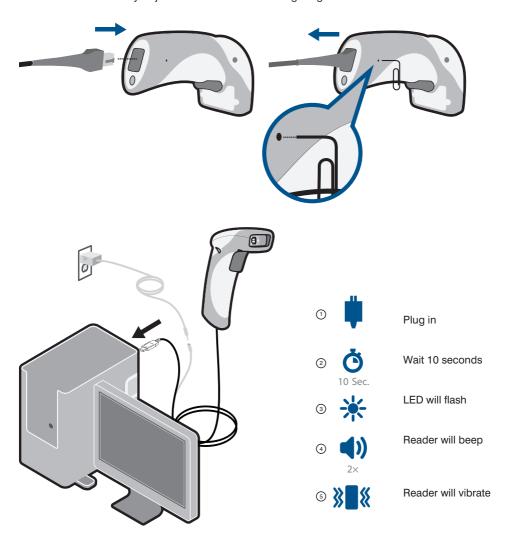
· Comply with storage instructions.

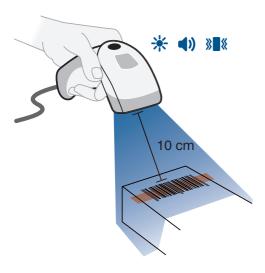


5. Installation and Electrical Connection

5.1 Installation

- Protect the product against contamination during installation.
- · Observe all applicable electrical and mechanical regulations, standards, and safety rules.
- Protect the product against mechanical influences.
- There must not be any objects underneath the working range.







ATTENTION!

Risk of property damage in case of improper installation!

The product may be damaged.

• Comply with installation instructions.



CAUTION!

Risk of personal injury or property damage during installation!

Personal injury and damage to the product may occur.

• Ensure a safe installation environment.

5.2 Electrical Connection

The CSMH00x hand scanner has an RJ-50 connector with the following configurations:

Pin 1	+ 5 V
Pin 2	USB_DM
Pin 3	USB_DP
Pin 4	RS-232 TX (scanner output)
Pin 5	RS-232 RTS (scanner output)
Pin 6	RS-232 RX (scanner input)
Pin 7	RS-232 CTS (scanner input)
Pin 8	External trigger (active low scanner input)
Pin 9	N/C
Pin 10	Grounding



NOTES:

- 1. Part to be ROHS and Reach compliant.
- 2. Maximum Voltage Tolerance = 5 V +/- 10 %.
- 3. Caution: Exceeding the maximum voltage will void manufacturer warranty.

Connector A	Name	Wire	Color	Connector B
1	VIN	24 A WG	Red	1
2	DM	28 A WG	White	2
3	DP	28 A WG	Green	3
4	GND	24 A WG	Black	10
Shell	_	Shield	Bare	Shell

Connector A

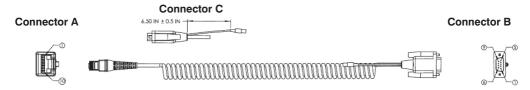
Connector B



NOTES:

- 1. Part to be ROHS and Reach compliant.
- 2. Maximum Voltage Tolerance = 5 V +/-10 %.
- 3. Caution: Exceeding the maximum voltage will void manufacturer warranty.

Conn A	Name	Wire	Color	Conn B	Wire	Color	Conn C
1	VIN	24 A WG	Red	9	24 A WG	Red	TIP
4	TX	28 A WG	Brown	2			
5	RTS	28 A WG	Orange	8			
6	RX	28 A WG	Yellow	3			
7	CTS	28 A WG	Green	7			
10	GND	24 A WG	Black	5	24 A WG	Black	RING
Shield	_	Shield		Shield			



5.3 Diagnostics

Required action in case of fault:

NOTE!

- · Shut down the machine.
- H
- Analyze and eliminate the cause of error with the help of the diagnostics information.
- If the error cannot be eliminated, please contact wenglor's support department
- Do not operate if malfunctioning indeterminately.
- The machine must be shut down if the error cannot be definitively explained or properly eliminated.



DANGER!

Risk of personal injury or property damage in case of non-compliance!

The system's safety function is disabled. Personal injury and damage to equipment.

· Required action as specified in case of fault.

6. Functions Overview

6.1 Default Settings

The following code types are activated upon delivery:

- Codabar
- Code 39
- Code 93
- Code 128:
- · Data matrix
- · Data matrix rectangle
- All GS1 DataBars
- Interleaved 2 of 5
- MSI Plessey
- PDF417
- QR Code
- UPC/EAN/JAN

Additional types of codes can be activated using either the wenglor eazyScan parametrization software or the parametrization codes in chapter 9 on page 24.

16 Functions Overview



7. Installing the eazyScan software

7.1 Installation procedure

First verify whether there is a current version of the software available on the website. Go to www.wenglor. com and download the most current version of the software, as needed. If the software on the CD is the latest version, proceed as follows:

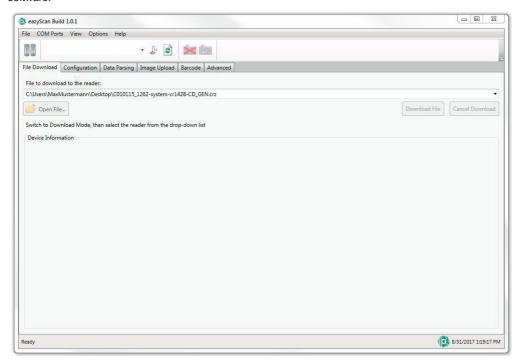
- 1. Insert the installations CD into the CD drive.
- Double-click on the "Install eazyScan" setup program to begin. Administrator rights are required here.
- 2. Installation instructions will follow.
- The eazyScan software is installed.

The language setting for the software is the same as for the operating system. If a different language is desired, it can be selected in the Settings menu.

8. General setup of the eazyScan software

8.1 Start screen

The following start window appears after the program has been started. Various options are provided by the software.



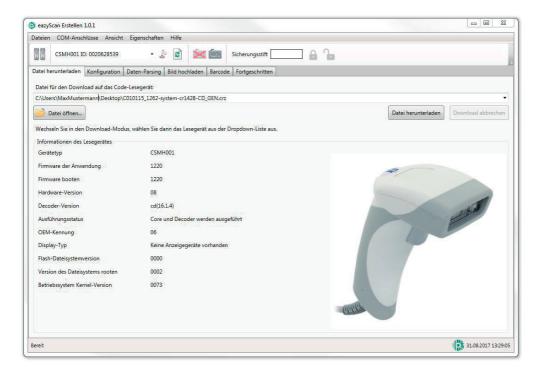
8.2 Operator interface

The depicted layout of the operator interface shows the standard configuration of the software upon first use. However, the user interface can be adapted to meet your individual needs.



8.3 Establishing connection

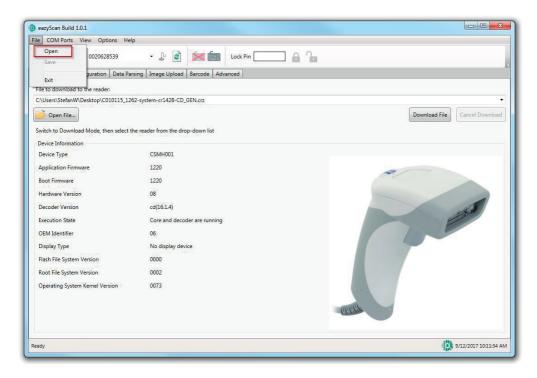
- 1. Open the eazyScan software
- 2. Plug the USB cable or RS-232 jack into your PC
- 3. If an RS-232 scanner is to be connected, the COM port used must be selected in the software.
- 4. The scanner will connect automatically. Two beeps will be heard when the scanner was connected correctly. With an RS-232 scanner, the Reload symbol must be pressed to start the search for RS-232 scanners.



5. USB scanners start in USB keyboard mode, which is set in download mode by clicking the -icon. When the mode has been changed, the scanner and its device information will appear in the software.

8.4 Firmware updates

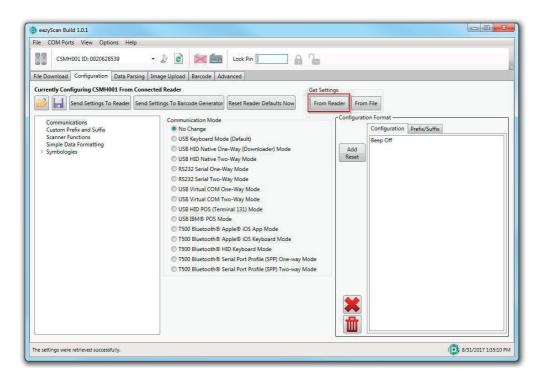
Click on Open file... to look for firmware files on the PC. When a firmware file has been selected, the firmware update process is started by clicking on Download file.



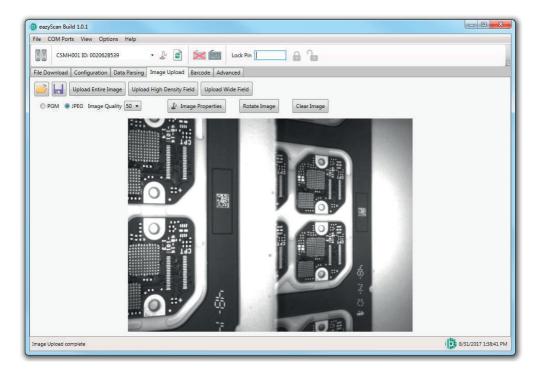


8.5 Configuration

The scanner configuration can be found under the Configuration tab. All available scanner setup parameters are displayed there.



8.6 Image capturing

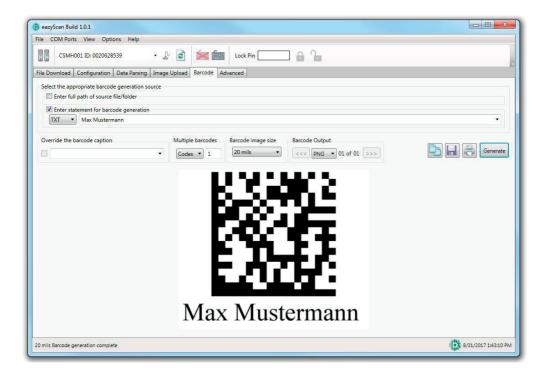


- 1. Select the image type in which you would like to save the image. You may choose PGM or JPEG. If JPG is selected, you may also choose the image quality.
- 2. Position the scanner where the barcode is to be read.
- 3. Select image windows from which readouts are to be made.
- If the image was captured, three additional buttons will become visible. Image properties, Rotate image, Delete image.



8.7 Data Matrix Code Generator

Click on the barcode and the data matrix code generator will open. After entering the data into the free field and defining the module size of the code, generate a code by clicking on Create.



9. Setup using data matrix code

9.1 USB port

The scanner is normally set to USB native mode (HID) In this mode, unformatted, unpacked data is usually sent to the scanner via the USB port.



Reset to USB Factory Defaults

Scan this barcode to place the reader in USB Downloader Mode. This mode allows file transfer to/from the reader. File types eligible for transfer include firmware, configuration, and images (also default mode for CortexTools).



M10004 02

USB Downloader Mode

Scan this barcode to use Virtual COM mode to transfer batch data. The reader will talk to a virtual COM port on the host device and transmit data serially (i.e. like an RS232 device).



M10005 01

USB Virtual COM - 1 Way Mode - Batch Mode Only



USB Virtual COM Multiple Ports





USB Virtual COM Common Ports

Scan this barcode to place the reader in bi-directional, packetized USB mode with automatic retry on packets.



USB Native Two Way Mode

9.2 RS-232 Interface

With RS-232 communication, the scanner communicates with the host using a communication program like ESP Terminal.

The standard settings for creating an RS-232 connection are:

Baud rate: 115.2 K Parity: None Stop bits: 1 Data bits: 8

If the RS-232 interface is active, USB communication is turned off, and you will have to reset the scanner or press the "USB Keyboard Mode" symbol to return to USB.



Reset to RS232 Factory Defaults

Baud Rate (RS-232)

The baud rate is the speed at which the scanner and host transmit data. It only needs to be changed when the host settings need to be adjusted.



RS232 Interface 1200 Baud Rate



RS232 Interface 2400 Baud Rate



RS232 Interface 4800 Baud Rate



RS232 Interface 9600 Baud Rate



RS232 Interface 19200 Baud Rate



RS232 Interface 38400 Baud Rate



RS232 Interface 57600 Baud Rate



RS232 Interface 115200 Baud Rate



Parity (RS-232)

Parity is an error detection routine in which every character in a data bit is set to 1 or 0 so that the total number of 1 bits in each data field is even or odd. It only needs to be changed when the host settings need to be adjusted.



RS232 Interface Even Parity



RS232 Interface Odd Parity



RS232 Interface No Parity

Data Bits (RS-232)

Data bits represents the total number of bits in a character. This setting only needs to be changed when the host settings need to be adjusted.



RS232 Interface 8 Data Bits



RS232 Interface 8 Data Bits (Standard)



RS232 Interface Stop Bits 1



RS232 Interface Stop Bits 1



RS232 Interface Flow Control Off



RS232 Interface Flow Control - Hardware

9.3 Communications Mode

Data is transmitted from the scanner to the host in raw format, without packet framing or check characters. One-way communication is conducted in raw format. No response from the host is expected and data will not be resent.



RS232 Raw Mode

Packet mode data is sent with framing (meaning a preamble that communicates the quantity of data to be transmitted and a postamble with error detection) and check characters, and a response is expected from the host. Two-way communication is conducted in packet form.



RS232 Packet Mode



Keyboard Mapping

The Keyboard Mapping option provides alternative settings for keyboards that do not have the US English keyboard layout.

Note: The universal keyboard layout is somewhat slower than other language-specific options since the keys are assigned using the entire ASCII character set. The advantage of the universal keyboard layout is that every language and keyboard layout can be mapped.

Important: This option should not be confused with the USB keyboard mode, which provides the ability to create wired USB communication.



Keyboard Support: Russian Keyboard Mapping for Windows



Keyboard Support: English Keyboard Mapping for Apple



Keyboard Support: English (US) Keyboard Mapping for Windows



Keyboard Support: USInternational (Universal) Keyboard Mapping for Windows



M10471_01

Keyboard Support: English (UK) Keyboard Mapping for Windows



Keyboard Support: Belgian French Keyboard Mapping for Windows



M10420_02

Keyboard Support: French Keyboard Mapping for Apple



M10462_02

Keyboard Support: French Keyboard Mapping for Windows



M10421_02

Keyboard Support: German Keyboard Mapping for Apple





M10463 02

Keyboard Support: German Keyboard Mapping for Windows



M10422_02

Keyboard Support: German-Swiss Keyboard Mapping for Apple



M10466 02

Keyboard Support: Swiss German Keyboard Mapping for Windows



M10423 02

Keyboard Support: Italian Keyboard Mapping for Apple



M10424_02

Keyboard Support: Spanish Keyboard Mapping for Apple



Keyboard Support: Spanish Keyboard Mapping for Windows



Keyboard Support: Japanese Keyboard Mapping for Windows



Keyboard Support: Latin American Keyboard Mapping for Window



USB HID POS Mode (Terminal ID 131)



Translate all Characters to Uppercase Off



9.5 Alternative operating systems

The reader will modify its enumeration and communication scheme to work on Linux, Windows CE, or OS X operating systems.



Alternative operating systems (Linux/Mac) off (Standard)



Alternative operating systems (linux/Mac) on

9.6 Scanning process

When on, reader will constantly flash its LEDs and attempt to decode. Turn on to disable this feature. Continues Read off.



Continuous Scan Off

When on, reader will constantly flash its LEDs and attempt to decode. Turn on to enable this feature. Continues Read on.



Continuous Scan Both Imagers On



Duplicate Scan Disabled



1 Second Duplicate Scan Delay



2 Second Duplicate Scan Delay



3 Second Duplicate Scan Delay



5 Second Duplicate Scan Delay



10 Second Duplicate Scan Delay



30 Second Duplicate Scan Delay



1 Hour Duplicate Scan Delay



1 Day Duplicate Scan Delay



You can activate and deactivate LED alignment assistance using the Targeting parameter. Alignment assistance is activated by default.



Targeting On (Standard)



Targeting On

Use Motion Detection to specify that the scanner start a decoding trial as soon as it detects movement in its visual field.



Motion Detection Off In and Out of Stand



Optimize Motion Detection for Bright Environments



Optimize Motion Detection for Dark Environments



No Motion Detection Delay



500 ms Motion Detection Delay



M10403_02

Motion Detection On in Stand Trigger out of Stand

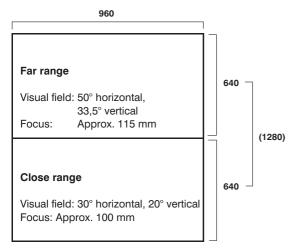


Motion Detection On In and Out of Stand

9.7 Dual scanning area

The scanner can read small 2D codes as well as large 1D codes thanks to its dual scanning area. An image will be captured of every area. First it will attempt to decode the image (at close or far range) that was succesfully decoded during the last cycle. If this fails, the next image will be decoded. Move the scanner closer if the symbols are smaller and further away if they are larger.

Image area







Scan this barcode to read from the wide optical field only



Scan this barcode to read from the high density optical field only



Scan this barcode to read from both optical fields.

9.8 Mirroring

The scanner can decode mirrored symbols with the Mirroring function. When Mirroring is active, all other decoding functions are turned off.

Note: If the scanner is set to Mirroring On, it can now only return to standard mode when the Mirroring Off symbol pictured below is pressed.



Mirroring Off (Standard)



Mirroring On

9.9 Preamble and postamble

attached at the beginning of a decoded data string. The characters are displayed in the order that they are activated (from left to right). If you, for example, enter a comma and then a space, then decode a barcode with the "ABC" data, the following will output:

, ABC

The number of preamble characters that can be entered depends on the total quantity of memory space available. Specify the desired preamble character by pressing the corresponding symbol, shown below.



Prefix Comma



Prefix Space



USB Keyboard Mode Only)



Prefix Tab (RS232 Mode Only)



Prefix Carriage Return Line Feed (RS232 Mode Only)



Erase Prefix Data (Standard)



Suffix Comma





Suffix Space



Suffix Tab (USB Keyboard Mode Only)



Suffix Enter (USB Keyboard Mode Only)



Suffix Carriage Return (RS232 Mode Only)



Suffix Line Feed (RS232 Mode Only)



Suffix Carriage Return Line Feed (RS232 Mode Only)



Suffix Tab (RS232 Mode Only)



Erase Prefix & Suffix Data (Standard)



Turn on Timestamp Prefix



Turn off Timestamp Prefix

9.10 Text Command

Use Text Command to determine whether a text command from the host is to be received.



Reader Text Commands Off (Standard)



Reader Text Commands On

9.11 Beeper / Vibrator

Press the configuration symbols below in order to activate or deactivate the beeper and vibrator functions.



Beep On Vibrate On (Standard)



Beep Off Vibrate On





Beep On Vibrate Off



Beep Off Vibrate Off



Beep Volume 0 %



Beep Volume 33 %



Beep Volume 67 %



Beep Volume 100%

9.12 Code settings

9.12.1 Aztec Code



Aztec On (Standard)



Aztec Off



Aztec Inverse On



Aztec Inverse & Normal On

9.12.2 Codabar



Codabar On (Standard)



Codabar Off



Codablock F Off





M10027_01

Codablock F On



Keep Codabar Start and Stop Delimiters - Default



Remove Codabar Start and Stop Delimiters

9.12.3 Code 11



M10028 02

Code 11 Off (Standard)



M10029 03

Code 11 On



M10031 0

Code 11 Checksum Stripped from Result On



M10550 0

Enable Code 11 Decoding with one checksum digit checked, and remove checksum from output

9.12.4 Code 32 (Italian Pharmacode)



Code 32 (Italian Pharmacode) Off (Standard)



Code 32 (Italian Pharmacode) On

9.12.5 Code 39



Code 39 On (Standard)



Code 39 Off



Code 39 Checksum Off



Code 39 Checksum On



Code 39 Checksum Stripped from Result On



Code 39 Extended Full ASCII Off





Code 39 Extended Full ASCII In

9.12.6 Code 49



M10458_01 Enable Code 49



Disable Code 49

9.12.7 Trioptic Barcode



Trioptic Off (Standard)



Trioptic On



M10445 0

Trioptic - Disable Reverse Order option (Bit 3)



Trioptic - Enable Reverse Order option (Bit 3)

9.12.8 Code 93



Code 93 On



Code 93 Off

9.12.9 Code 128



Code 128 On (Standard)



Code 128 off



9.12.10 Composite Barcode



Composite off (Standard)



Composite on

9.12.11 Data Matrix



Data Matrix Rectangular & Rectangular Extended Off



Data Matrix Rectangular On & Rectangular Extended Off (Standard)



Data Matrix Inverse Off



Data Matrix Inverse On (Standard)



Data Matrix Rectangular On & Rectangular Extended On

9.12.12 Grid Matrix



Enable Grid Matrix Symbology



Disable Grid Matrix Symbology - Default



Enable Grid Matrix & Grid Matrix Inverse Decoding



Enable Grid Matrix & Grid Matrix Mirror Decoding



Enable Grid Matrix, Grid Matrix Inverse & Grid Matrix Mirror Decoding



9.12.13 GoCode



Enable GoCode & GoCode Inverse Decoding



Enable GoCode & GoCode Mirror Decoding



Enable GoCode, GoCode Inverse & GoCode Mirror Decoding

9.12.14 GS1 Databar



All GS1 DataBar On (Standard)



All GS1 DataBar Off



GS1 DataBar Limited On



GS1 DataBar Omnidirectional and GS1 DataBar Truncated On



GS1 DataBar Stacked and GS1 DataBar Stacked Omnidirectional On



GS1 DataBar Expanded On



GS1 DataBar Stacked and GS1 DataBar Stacked Omnidirectional Off



GS1 DataBar Limited Off



GS1 DataBar Omnidirectional and GS1 DataBar Truncated Off



GS1 DataBar Expanded Stacked Off



GS1 DataBar Expanded Stacked On



GS1 DataBar Expanded Off



9.12.15 Interleaved 2 of 5



Interleaved 2 of 5 On (Standard)



Interleaved 2 of 5 Off



Int 2 of 5 Checksum Off (Standard)



Int 2 of 5 Checksum On



Int 2 of 5 Checksum Stripped from Result On

9.12.16 Maxicode



Maxicode Off (Standard)



Maxicode on

9.12.17 Matrix 2 of 5



Matrix Code 2 of 5 Off (Standard)



Matrix Code 2 of 5 On

9.12.18 PDF417



PDF417 On (Standard)



PDF417 Off



Micro PDF417 Off (Standard)



Micro PDF417 On



9.12.19 MSI Plessey



M10076_01 MSI Plessey On



MSI Plessey Off (Standard)

9.12.20 Hong Kong 2 of 5



M10078_02

Hong Kong 2 of 5 Off (Standard)



Hong Kong 2 of 5 On

9.12.21 NEC 2 of 5



NEC 2 of 5 on



M10083_01 NEC 2 of 5 off

9.12.22 QR Code



Standard QR Code On (Standard)



All QR Code on



All QR Code Off

9.12.23 Telepen



Telepen On



Telepen Off (Standard)



Output Telepen as Numeric



Output Telepen as ASCII



9.12.24 UPC/EAN



Scanner reads UPC-A, UPC-E, EAN-13 and EAN-8



UPC Off



UPC E Expansion Off (Standard) Scanner expands UPC-E bar codes into UPC-A barcodes



UPC E Expansion On Scanner expands UPC-E bar codes into UPC-A barcodes



UPC Supplemental Off (Standard)

Reader will scan the two or five digit supplemental barcode that accompanies some UPC/EAN barcodes



UPC Supplemental On

Reader will scan the two or five digit supplemental barcode that accompanies some UPC/EAN barcodes



Transmit UPC-A Check Digit



Do Not Transmit UPC-A Check Digit



Transmit UPC-A Number System



Do Not Transmit UPC-A Number System



Transmit UPC-E Check Digit



Do Not Transmit UPC-E Check Digit



Transmit UPC-E Number System



Do Not Transmit UPC-E Number System



Transmit EAN-13 Check Digit





Do Not Transmit EAN-13 Check Digit



Transmit EAN-8 Check Digit



Do Not Transmit EAN-8 Check Digit



Do Not Convert EAN-8 to EAN-13



Convert EAN-8 to EAN-13



Do Not Convert UPC-A to EAN-13



Convert UPC-A to EAN-13



Do Not Convert Bookland EAN-13 to ISBN



Convert Bookland EAN-13 to ISBN



Do Not Convert Bookland EAN-13 to ISSN



Convert Bookland EAN-13 to ISSN

9.12.25 UK Plessey



UK Plessey Off (Standard)



UK Plessey ON

9.12.26 Straight 2 of 5



Straight 2 of 5 Off (Standard)



Straight 2 of 5 On



9.12.27 Han Xin



an Xin On



Han Xin Off (Standard)

9.12.28 Pharmacode



Pharmacode Off (Standard)



Pharmacode On



Pharmacode Reverse Barcode Decoding (Right to Left)



Pharmacode Normal Barcode Decoding (Left to Right)

9.12.29 Post Codes



USPS Postnet On



USPS Postnet Off (Standard)



USPS Planet On



USPS Planet Off (Standard)



USPS Intelligent Mail/IMB/ 4-State CB On



USPS Intelligent Mail/IMB/ 4-State CB Off (Standard)



Australian Post On



Australian Post Off (Standard)





KIX (Dutch Post) Code On



KIX (Dutch Post) Code Off (Standard)



Japan Post On



Japan Post Off (Standard)



UK Royal Mail On



UK Royal Mail Off(Standard)



Korean Post On



Korean Post Off (Standard)



Universal Postal Union ID-Tag On



Univeral Postal Union ID-Tag Off (Standard)

9.13 Other commands



Clear All Stored Data and Images



Clear all JavaScript Rules



Reader ID and Firmware Version

Save settings



Save All Reader Settings



Cell Phone Reading Enhancement Off (Standard)



Cell Phone Reading Enhancement On





Scan this barcode to translate all alphabetic data to upper case



Convert Barcode Data to Lowercase



Control Character Input - Language Default - Default



Control Character Input - Ctrl + Character



Control Character Input - Alt + Keypad



Control Character Input -Alt + Leading Zero



Output Good Read on RTS line Off



Output Good Read on RTS line - Active Low



Output Good Read on RTS line - Active High



10. Maintenance Instructions

NOTE!





- It's advisable to clean the transducer and the display, and to check the plug connections at regular intervals
- Do not clean the sensor with solvents or cleansers which could damage the product
- The product must be protected against contamination during initial start-up

11. Proper Disposal

wenglor sensoric GmbH does not accept the return of unusable or irreparable products. Respectively valid national waste disposal regulations apply to product disposal.

64 Maintenance Instructions



12. Appendix

12.1 List of Changes to Operating Instructions

Version	Date	Description/change	Associated software version
1.0.0	12.09.2017	Initial version of the operating instructions	
1.1.0	04.04.2019	5.2 on page 14	

12.2 Check list for initial start-up

- This checklist is intended to provide assistance during initial start-up.
- This check list does not replace the checks before intitial start-up as well as the regular checks on the part of specialized personnel

1. Standards and guidelines; selecting the ESPE				
Are the safety rules for the machine based on applicable standards and guidelines?	Yes	No		
	Yes	No		
	Yes	No		
2. Safety clearance				
Was the safety clearance calculated according to applicable standards?	Yes	No		
	·			

12.3 EU Declaration of Conformity

The EU declaration of conformity can be found on our website at www.wenglor.com in download area.

66 Appendix

