

CSLH003

1D/2D Handheld Scanner, Bluetooth



Operating Instructions

Translation of the Original Operating Instruction
Subject to change without notice
Available as PDF version only
Version: 1.0.0
Status: 10.06.2020
www.wenglor.com

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1. Statement of Agency Compliance

NOTE!

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.



Industry Canada (IC)

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Industrie Canada (IC)

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

2. General

2.1 Information Concerning these Instructions

- These instructions apply to the product with ID code CSLH003.
- 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.

2.2 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.

**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.

2.3 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.

2.4 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.

3. For Your Safety

3.1 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

3.2 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.
-

3.3 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.
-

3.4 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.
-

3.5 General Safety Precautions

**NOTE!**

- These instructions are an integral part of the product and must be kept on hand for the entire duration of its service life.
- 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.

3.6 Approvals



4. Introduction

wenglor's CSLH003 is an advanced wireless 2D barcode reader. It features inductive charging, the latest Bluetooth Low Energy standards, and a lightweight and ergonomic design in combination with superior barcode scanning performance.

5. Useful Configuration Codes

5.1 Scanning the Reset Bluetooth Reader to Factory Defaults Barcode

Scanning the **Reset Bluetooth Reader to Factory Defaults** barcode below (M20390) will erase all custom configurations and reset the device to default settings. This will also erase any pairing information. This, however, will not erase any user settings preprogrammed at factory or any JavaScript files loaded at factory or by the user.



M20390_01

5.2 Scanning the Reboot Reader barcode

Scanning the **Reboot Reader barcode** below (M20345) will power cycle the device.



NOTE!

Any settings that are not saved will be erased.



M20345_01

5.3 Bluetooth HID Keyboard barcode

The CSLH003 supports direct connection as a Bluetooth Keyboard device with third party hosts that support Bluetooth Low Energy (such as PCs, mobile phones and tablets). Scan the **Bluetooth HID Keyboard barcode** below (M20381) to set the reader as a

Bluetooth Keyboard device, then connect using host's device manager (on PC) or Bluetooth settings (on mobile devices).



NOTE!
This mode is not applicable when using a wenglor charger with embedded Bluetooth radio (ZNNG048).



M20381_01

6. CSLH003 Readers and Accessories

6.1 Readers

Part Number	Description
CSLH003	1D/2D Handheld Scanner, Bluetooth

6.2 Charging Stations

Part Number	Description
ZNNG048	Bluetooth Inductive Charging Station

6.3 Accessories

Part Number	Description
ZNNG047	Spare Battery

7. Supporting Documents and Resources

The following documents available from the Documentation section of the product page on wenglor website <https://www.wenglor.com/product/CSLH003>

- Quick Start Guide, includes general instructions on setting up and operating CSLH003 readers and charging stations.
- Interface Control Document, specifies the communication protocol between wenglor Reader hardware and application software that runs on the host computer, specific Reader commands, and examples of a variety of ways to communicate and send data to the Reader and command/communication types.
- Configuration Control Document, specifies the Reader configuration commands.

NOTE!



Interface Control Document and Configuration Control Document, are for application developers that want to integrate scan data directly into their application and control configuration of the barcode reader. Customers using a keyboard interface won't need these documents, and should reference the Configuration Guide Generator for configuration changes.

The following tools and resources are also available:

- easyScan2, is a PC software tool to configure, update, customize and manage wenglor Readers. It is available to download from the CSLH003 product page on the wenglor website.

8. Unpacking and Installation



NOTE!
CSLH003 readers can only be charged by the ZNNG048 charging station from wenglor.
The CSLH003 is not compatible with any other chargers.

8.1 Features

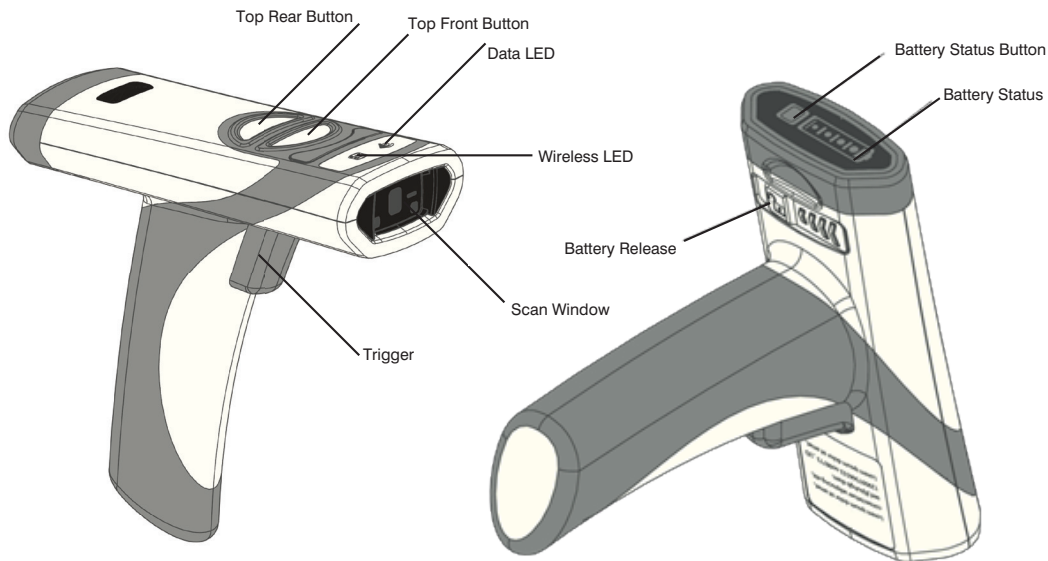


Figure 2 CSLH003 Reader Features

8.2 Charging Station Features

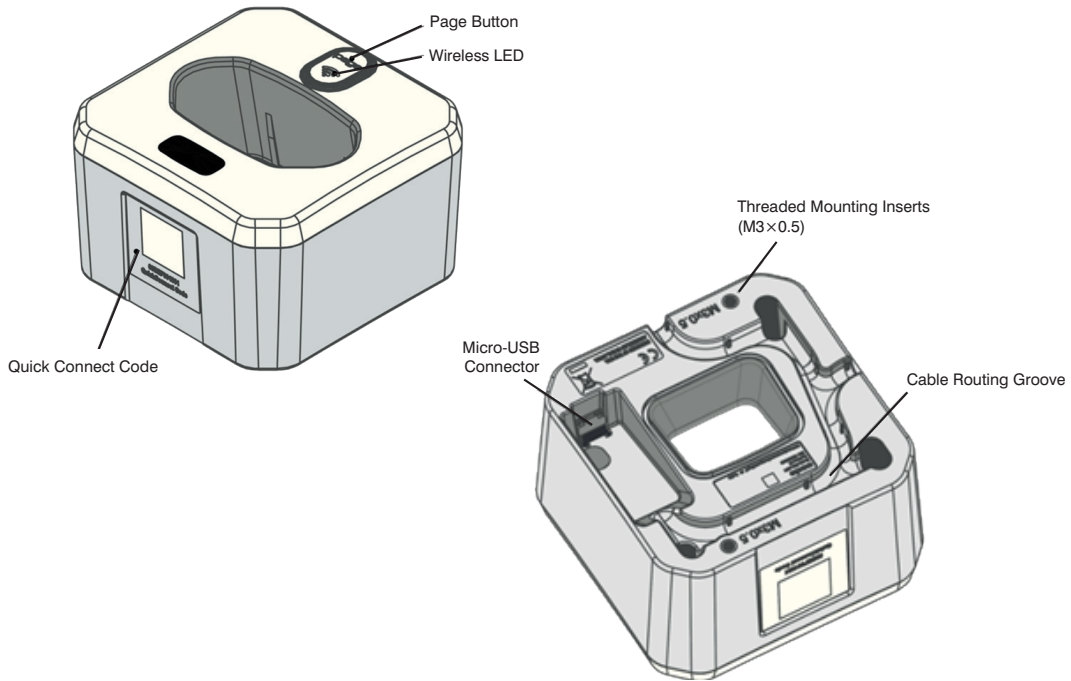


Figure 3 ZNNG048 Bluetooth Charging Station Feature

8.3 Desktop Base Features

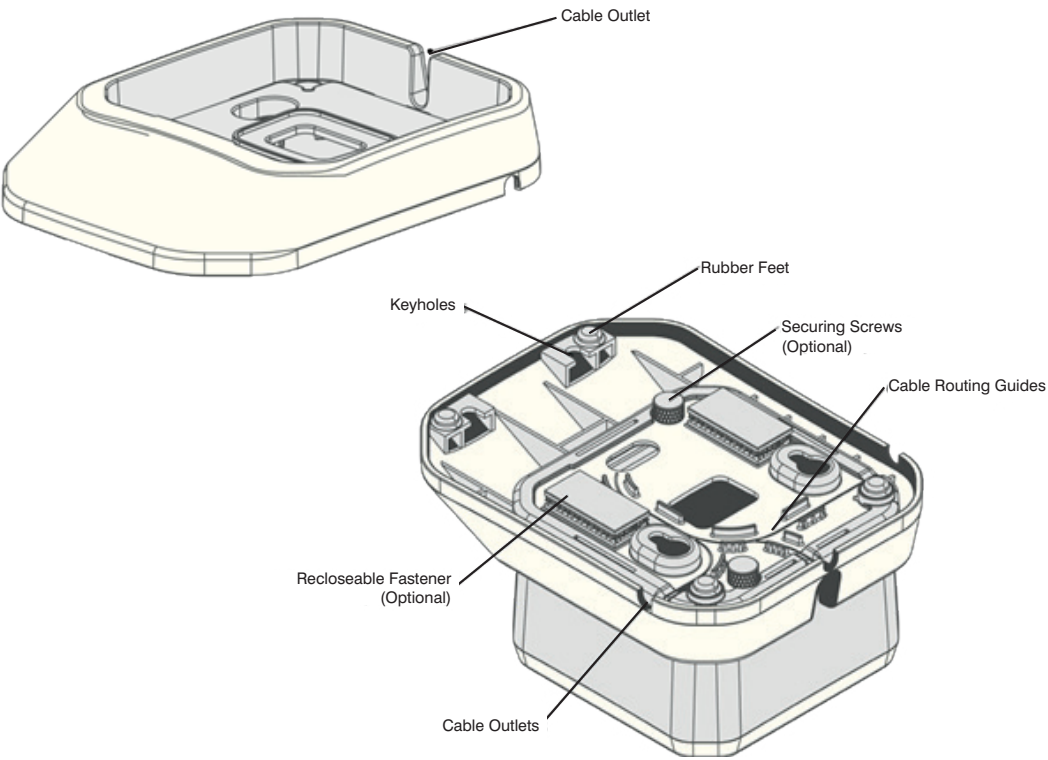


Figure 4 Desktop Base Features

8.4 Unpacking

Open the box that contains the product, remove the reader and included accessories. Inspect for damage. If the product is damaged, please do not proceed to installation. Contact [wenglor Support](#) (see section “[18 Contact wenglor for support](#)” on page 38 for information). Retain the original packaging material for potential return shipment.

8.5 Insert and Remove Battery

Only the ZNNG047 battery is compatible with the CSLH003 readers. The battery is keyed so it can only be inserted one way. Insert a ZNNG047 battery into the cavity of the reader until it clicks. Hold any button on the reader (except the Power Gauge button on the battery) for half a second and the reader will start its booting sequence. When the reader successfully completes its booting sequence (in about 2 seconds), the LEDs will flash, and the reader will beep and vibrate once.

To remove the battery, push the battery compartment latch in the direction indicated by the arrow until the battery pops up slightly. Pull the battery out of the reader cavity.

8.6 Connecting Charging Station

Use only cables or power supply provided by wenglor to ensure proper communication with the host and to provide adequate voltage to charge the reader.

- Insert the micro USB connector of the cable to the micro USB port on the bottom of the charging station (Figure 7).
- Run the cable along the cable routing guides on the bottom of the charging station. If the charging station will be placed into a desktop base, the cable should exit through the opening in the back of the charging station (see Figure 8).



NOTE!

Please note, the ZNNG048 may not charge consistently or at all when connected to a USB hub, even if the hub is powered.

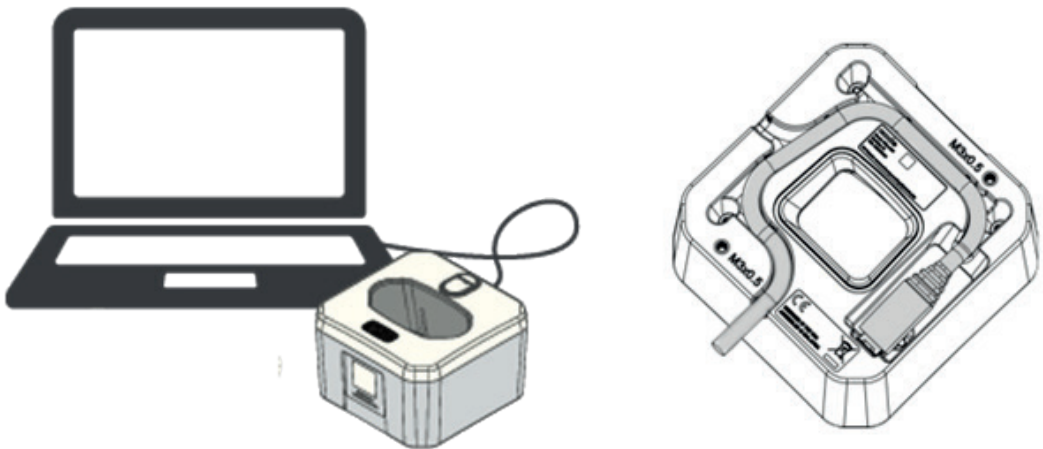


Figure 7 Connect Charging Station

8.7 Desktop Mount

The Desktop Mount provides extra charger stability when the charger is free standing on a counter or desk. Place the charging station into a desktop base (Figure 8). The charging station can be secured onto the base using two pan head screws supplied with the desktop base. The desktop base can be fastened onto a flat surface using included multi-use adhesive tape, if desired (see Figure 4 for locations to attach the tape

Thumb screws (M3x0,5) can also be used to fasten the charging station to the base.

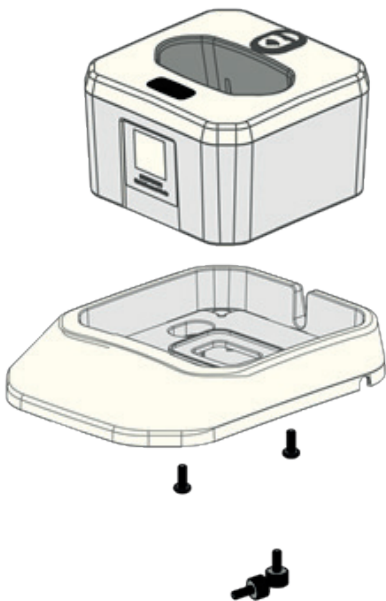


Figure 8 Install and Secure Desktop Base

8.8 Charging ZNNG047 Battery

It is recommended to fully charge the battery before deploying the reader for the first time, even though a new battery has a residual amount of battery power. To ensure adequate battery power to last through a shift, always place the reader back into a charger between activities. Constant charging will not shorten the life of the battery.

- To charge the battery installed in the reader, place the reader in the charging station with the scan window facing down (Figure 9). The reader will beep once if the reader is powered off and wakes up, another beep if the reader has been paired with the charger and reconnects. The Power Gauge LEDs on the battery will start flashing 4 second on and 1 second off alternately. Once the battery is fully charged, the Power Gauge LEDs will stay on solid. The battery charging time may vary if the inductive charger is connected to a PC USB port.

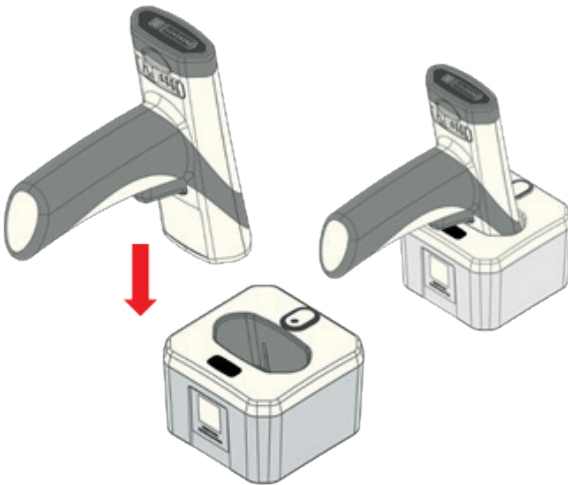


Figure 9 Charging Reader in Charging Station

NOTE!

The temperature range to charge the battery is 0° C – 40° C (32° F – 104° F). Although the reader will operate beyond this range, the battery may not charge properly. To avoid temperature related battery issues, always charge the battery and operate the reader between 0° C – 40° C (32° F – 104° F).

Please note: It is normal that the area around the serial label on the reader becomes warm during charging.

For long-term storage or shipping, please remove the battery from the reader.

8.9 Pairing CSLH003 with a Bluetooth Device

The CSLH003 reader operates in Bluetooth Low Energy mode. It must be paired with another Bluetooth device that supports Bluetooth Low Energy for wireless data communication.

8.9.1 Pairing with a Bluetooth Inductive Charging Station

The CSLH003 reader can pair with a ZNNG048 Bluetooth Inductive Charging Station. The charging station will receive data wirelessly from the paired reader and send to the host PC via USB. It can receive commands, configurations, files, etc. from the host and send wirelessly to the paired reader. To pair a CSLH003 reader with a ZNNG048 Bluetooth Charging Station, simply scan the unique QuickConnect wenglor displayed on the charging station. A successful pairing is indicated by two short beeps followed by one normal beep and one vibration. Also, the wireless indicators on both the reader and ZNNG048 will turn solid green. Alternatively, the Quick Connect Code can be generated and displayed on a host PC. Download easy-Scan2 from the CSLH003 product page of the wenglor website, install then run on the host PC. Connect a ZNNG048 Bluetooth Charging Station to a USB port on the PC. The software can generate and display the QuickConnect Code to be scanned by a CSLH003 reader.

8.9.2 Pairing with a Host

The CSLH003 reader can be paired with a third party host such as a mobile phone, tablet or a PC that supports Bluetooth Low Energy as a Bluetooth HID keyboard device. Scan the barcode below (M20381) to set the reader to Bluetooth HID keyboard mode. Open Bluetooth settings menu on the mobile device or Device Manager on the PC, find “wenglor CSLH003” in available Bluetooth devices and connect. Successful connection is indicated by a beep sound and flashing of the Bluetooth indicator on the reader. Automatic reconnection can be set on the host.



M20381_01

8.9.3 Locking Device Links

The CSLH003 reader supports locking the link between a reader and the ZNNG048 charger. Once locked, the charger can only connect with the paired reader. After pairing a reader with the ZNNG048 charger, scan the barcode M20409 below to enable Link Lock. To unlock the link, scan the barcode M20410.



M20409_01

(Enable Link Lock)



M20410_01

(Disable Link Lock)

9. CSLH003 Operations

The CSLH003 provides red illumination and a blue targeting bar to facilitate barcode scanning.

9.1 Handheld Scanning

Target the CSLH003 reader at a barcode at a distance about 10 cm (4") (Figure 10). If you Pull the trigger to read the barcode until the barcode is successfully read; alternatively, press one of the buttons on the top of the device. Press the scan button or trigger until the reader emits a beep, flashes green in the indicator window and vibrates, which indicate a successful read. Depending on the size of the barcode, the user may need to vary the distance between the reader and the barcode. In general, high density codes read better at shorter distances (close up) and large or wide barcodes read better at larger distances (farther away).

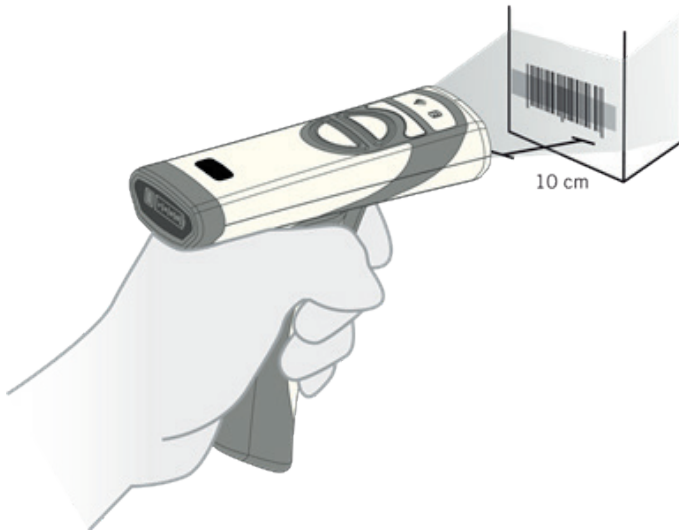


Figure 10 Manual Scanning

9.2 Targeting

The CSLH003 reader emits a blue targeting bar to help capture the barcode within its field of view (Figure 10). For best performance, aim at the barcode with the targeting bar.

9.3 Presentation Scanning

The CSLH003 supports presentation scanning in the charging station. This enables scanning without pressing a scan button or pulling the trigger. If this feature is enabled and the reader is placed into a wall mounted or cart mounted charging station, the reader enters presentation scanning mode. When an object is presented in its field of view, the reader will automatically emit red illumination, turn on the targeting bar, and attempt to scan barcodes (Figure 11). A successful read will be indicated by a beep and flashing green in the indicator window. Normal reading distance is about 10 cm (4") from the window of the reader or 9 cm (3.5") from the bottom of the base but the user may need to move the barcode closer or farther away for best results depending on barcode size.

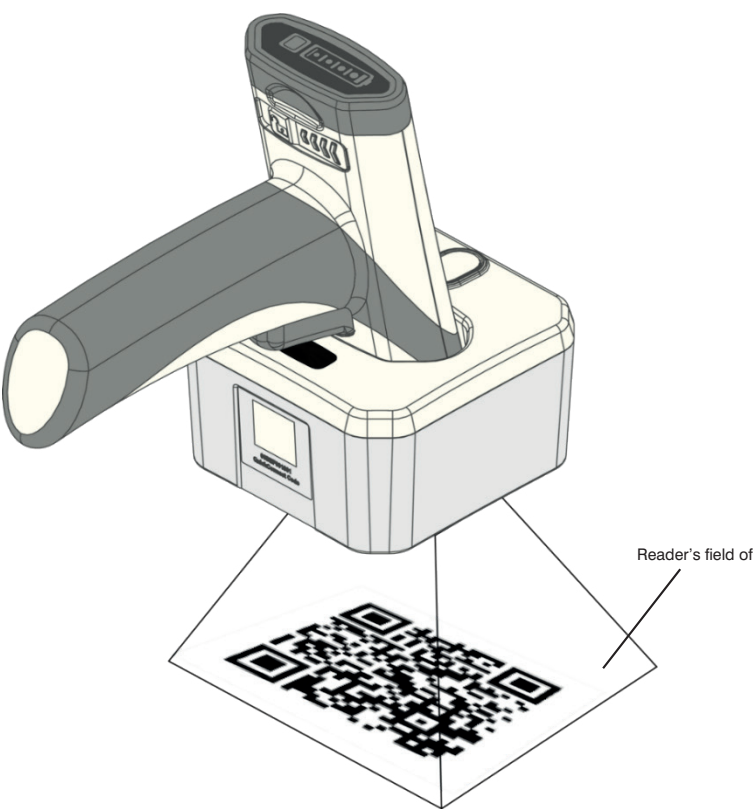








Figure 11 Presentation Scanning

9.4 Battery Use

The ZNNG0047 battery has a Li-ion cell with advanced features to allow effective use and management of its life. Usually, a new battery is only charged partially and should be fully charged before initial use. The battery has a built-in power gauge status indicator that turns on when the power gauge button on the battery is pressed, when the trigger is pulled or when one of the scan buttons is pressed.

No LED turns on	Power exhausted	
One LED flashing	<10 % Power left	
One LED on	<25 % Power left	
Two LEDs on	25–50 % Power	
Three LEDs on	50–75 % Power	
Four LEDs on	75–100 % Power	

When a battery is being charged the battery LEDs will flash. As power level increases, more LEDs will flash. Once it is fully charged, four LEDs will stay on solid. The ZNNG047 battery has a built-in health check that tracks residual power capacity against a new cell.

See section “16.3 Battery Information” on page 34 for the M-Code to output battery health information as a percentage of a new cell. Depending on use intensity and workflow, replace the battery when the residual capacity drops below a predetermined level to ensure that the battery will always last through a full shift. wenglor recommends replacing the battery when residual capacity drops below 80 %, which equates to about 500 charging cycles.

9.5 Paging Reader

The paging button on the ZNNG048 Bluetooth Charging Station assists with locating a connected reader. When touched for more than 1 second, the connected reader will beep until any button on the reader is pushed, the paging button is touched again for more than 1 second, or the page function times out, which is set to 30 seconds by default, but can be configured for any length between 1 and 60 seconds. Please note that the reader will beep when paged even if the reader is configured to turn off the beeper. If no reader is connected, the Paging LED on the charging station will flash 3 times quickly.

9.6 Reader Power Modes

The CSLH003 readers support 3 power modes.

- Operating Mode – The reader attempts to decode barcodes either by a trigger pull (or button press) or in presentation mode if enabled. In this mode, illumination and targeting are flashing.
- Idle Mode – The reader is on but not attempting to decode barcodes. In this mode, illumination and targeting are not on.
- Power Off Mode – If the reader is out of its charger, it will power off after 2 hours by default. Pushing any button on a powered off reader or placing it in a powered charging station will wake it up within 2 seconds.

10. User Feedback Indicators

The CSLH003 readers have built-in audio, visual and haptic indicators to provide status information to the user. Default indicator patterns are described below. These patterns can be customized for different use environments. For example, when used in a room where the patient is resting, it is desirable to turn off the beeper.

10.1 CSLH003 Readers

Status	Visual	Audio	Haptic*
Successfully powers up	Reader LEDs flash once in sequence	One beep	One vibration
Attempts to connect to a host	Wireless LED flashes fast until time out	-	-
Successfully connects to a host	Wireless LED turns on solid	Two short beeps and one normal beep	One vibration
Connected to a host	Wireless LED stays on solid	-	-
Reconnect to a charger successfully		One beep	
Fails to connect	-	Three beeps	
Successfully decodes and transfers data to the host	Read indicator flashes green once and wireless LED flashes until data transmission is completed	One beep	One vibration
Decodes but fails to transfer data		Three beeps	
Successfully decodes and processes configuration code	Read indicator flashes green once	Two beeps	Two vibrations
Successfully decodes but fails to process configuration code	Read indicator flashes green once	Four beeps	Four vibrations
Scanner is paged		Beeps until a scanner button is pushed or paging times out	
Downloading File/Firmware	Read indicator flashes amber	-	-
Installing file/firmware	Read indicator turns on red	Three slow beeps upon completion	Three slow vibrations upon completion

* Haptic feedback is turned off when the reader is in a charger.

10.2 ZNNG047 Battery

Status	Visual
Power gauge button pushed	LEDs turn on for 4 seconds
Scanner trigger is pulled or button is pushed	LEDs turn on for 4 seconds
Charging	LEDs alternate on for 4 seconds and off for 1 second
Fully charged while remaining in charger	LEDs stay solid on

10.3 ZNNG048 Bluetooth Charging Station

Status	Visual
Not powered	LED off
Powered but not connected to a reader	LED alternates 1 second on and 1 second off
Attempts to connect to a reader	LED flashes fast 7 times
Connected to a reader	LED stays solid on
Transmitting data	LED alternates 2 seconds on and 2 seconds off
Page issued to a connected reader	LED flashes until the connected reader starts beeping
Page issued but no reader is connected	LED flashes 3 times

11. Configuring the CSLH003

There are several ways to configure the reader to meet specific application requirements: for example, enabling and disabling certain symbologies, embedding a date code such as deployment date or warranty expiration date, adding a prefix or suffix to data output or even complex data manipulations.

11.1 Use eazyScan2

eazyScan2 is a software tool to manage wenglor devices. It is available from the CSLH003 product page of wenglor's website. Users can use it to:

- Download firmware, JavaScript and other files to wenglor devices
- Retrieve files or images from the devices
- Retrieve and make changes to device settings including data parsing and formatting
- Retrieve device information including model number, serial number, Bluetooth MAC address, license numbers if loaded, custom date if programmed and battery health information
- Send commands (refer to device Interface Control Document and Configuration Control Document) directly to the devices
- Save all settings into configuration files or generate configuration barcodes to replicate the settings in other devices
- Generate QuickConnect Code for a Bluetooth charging station

Please note, to ensure successful firmware updates, firmware download will not initiate if battery power level is low. If this occurs, charge the battery or swap with a charged spare battery.

11.2 Use JavaScript

Selected wenglor devices, including the CSLH003 readers, support JavaScript programming. This provides tremendous capabilities and flexibility for customization in order to meet various application requirements. From simply turning on or off features, to complex data manipulation, or even adding custom features, JavaScript gives you the capability. wenglor devices will retain JavaScript even after restoring factory settings.

12. Bluetooth Radio Communications

12.1 Bluetooth Radio Power

The CSLH003 readers use Class 2 Bluetooth Radio. Its power output level in the reader is set to 0 dBm by default but can be configured to lower or higher maximum levels. The default power output level of the Bluetooth radio on the ZNNG048 charger is -8 dBm and also can be adjusted. Reducing radio power output will restrict data transmission range. Refer to CCD for commands to change radio power level or contact wenglor Support.

12.2 Bluetooth Auto-Reconnect

The CSLH003 attempts to reconnect automatically when a connection is lost (for example, when the reader is moved out of range, loss of battery power, rebooting, or Bluetooth charging station or host powering down). This auto-reconnect feature is enabled by default but can be disabled. Default time out for auto-reconnect attempt is 5 minutes but can be configured for different durations.

12.3 Bluetooth Security

By default, Bluetooth Low Energy communication in the CSLH003 is AES-128 encrypted. For enhanced security requirements, please contact wenglor Support.

13. Interface Parameters

13.1 Bluetooth Charging Station Interface

The ZNNG048 connects to a host via a USB cable. It automatically detects the USB hosts and connects as a HID keyboard device by default. To change to another interface type, scan the desired interface configuration code or use eazyScan2.

13.2 Reader Bluetooth Interface

If a CSLH003 reader is connected directly to a host via Bluetooth Low Energy, it communicates as a Bluetooth HID keyboard device.

14. Programming Reader Buttons

The buttons on the readers can be programmed to change reader settings. For example, switch between “Day” and “Night” modes, or between “Regular” and “Continuous” scanning modes. Contact wenglor Support for details.

15. CSLH003 Specifications

15.1 Typical Reading Ranges

Test Barcode	Minimum Distance	Maximum Distance
3 mil Code 39	3.5" (90 mm)	4.4" (112 mm)
7.5 mil Code 39	0.9" (23 mm)	6.8" (172 mm)
10.5 mil GS1 DataBar	0.4" (10 mm)	8.3" (210 mm)
13 mil UPC	0.7" (18 mm)	10.6" (270 mm)
5 mil Data Matrix	1.3" (33 mm)	4.1" (105 mm)
6.3 mil Data Matrix	0.9" (23 mm)	5.5" (140 mm)
10 mil Data Matrix	0.4" (10 mm)	6.7" (170 mm)
20.8 mil Data Matrix	0.7" (18 mm)	13.1" (333 mm)



NOTE!

Reading ranges are a combination of both the wide and high density fields. All test barcodes were of high quality and read along a physical center line at a 10° angle. Default reader settings were used. Distance measured from the front of the reader in Metric units then converted to Imperial units. Testing conditions may impact working ranges.

15.2 Supported Symbolologies

Symbolologies that can be decoded by the CSLH003 are listed below. Common ones are turned on by default, but all can be turned on or off. To turn symbolologies on or off, scan the symbology barcodes in the CSLH003 Configuration Guide located on wenglor website at or use eazyScan2 software.

15.2.1 Symbolologies default on

- Aztec
- Codabar
- Code 39
- Code 93
- Code 128
- Data Matrix
- Data Matrix Rectangle
- GS1 DataBar, All
- Interleaved 2 of 5
- PDF417/Macro PDF417
- QR Code
- UPC-A/EAN/UPC-E

15.2.2 Symbolologies default off

- Codablock F
- Code 11
- Code 32
- Composite
- Data Matrix Inverse
- Han Xin Code
- Hong Kong 2 of 5
- IATA 2 of 5
- Maxicode
- Matrix 2 of 5
- Micro PDF417
- MSI Plessey
- NEC 2 of 5
- Pharmacode
- Plessey
- Straight 2 of 5
- Telepen
- Trioptic
- Postal Codes

15.3 Product Dimensions

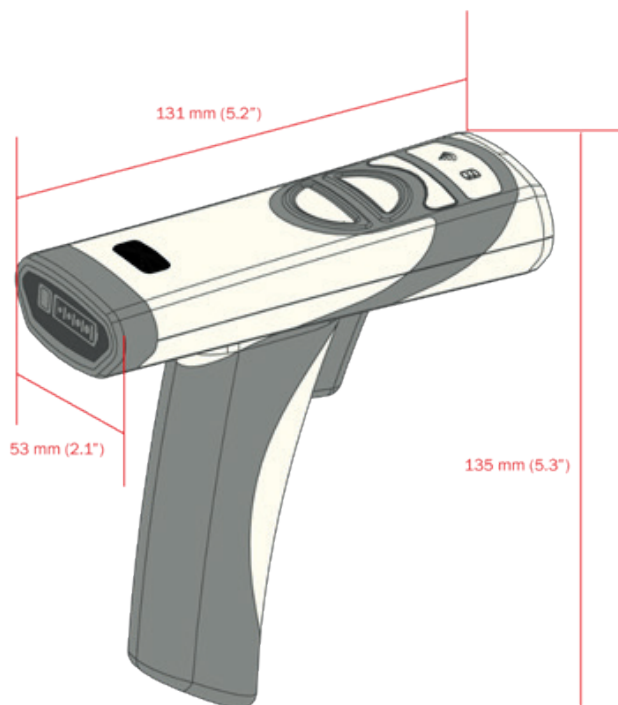


Figure 12 CSLH003 Reader Dimension

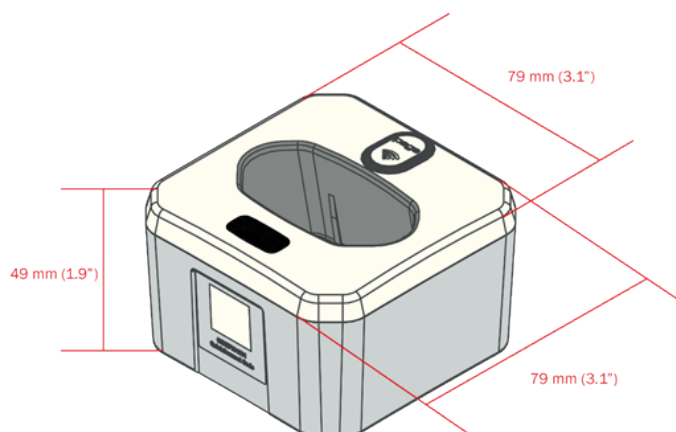


Figure 13 ZNNG048 Charging Station Dimensions

16. CSLH003 Device Information

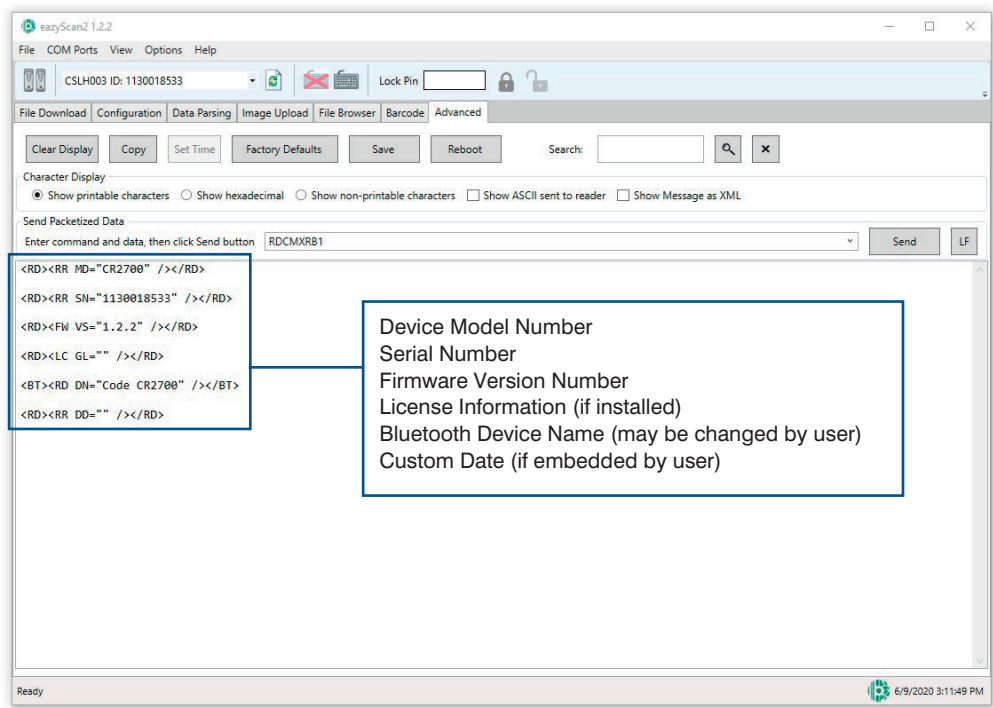
16.1 Reader Information

For device management and obtaining support from wenglor, reader information will be needed. To find out the reader model number, serial number, firmware version and optional licenses, run eazyScan2 software, connect the reader to the PC via the Bluetooth charger ZNNG048. Once eazyScan2 indicates the reader is connected, go to the Advanced tab. Scan the barcode below (M20361).



M20361_02

Following data will be displayed:



Above information can also be output to a text application such as Notepad.

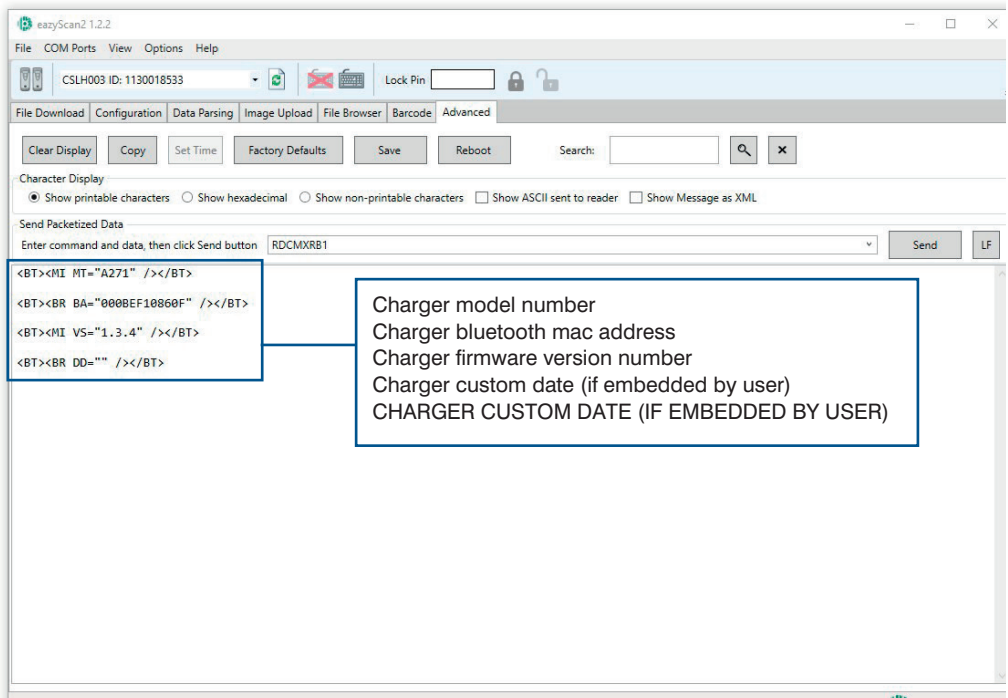
16.2 Bluetooth Charger Information

Scan the barcode below (M20408) to obtain Bluetooth charger information.



M20408_02

Following data will be displayed:



Above information can also be output to a text application such as Notepad.

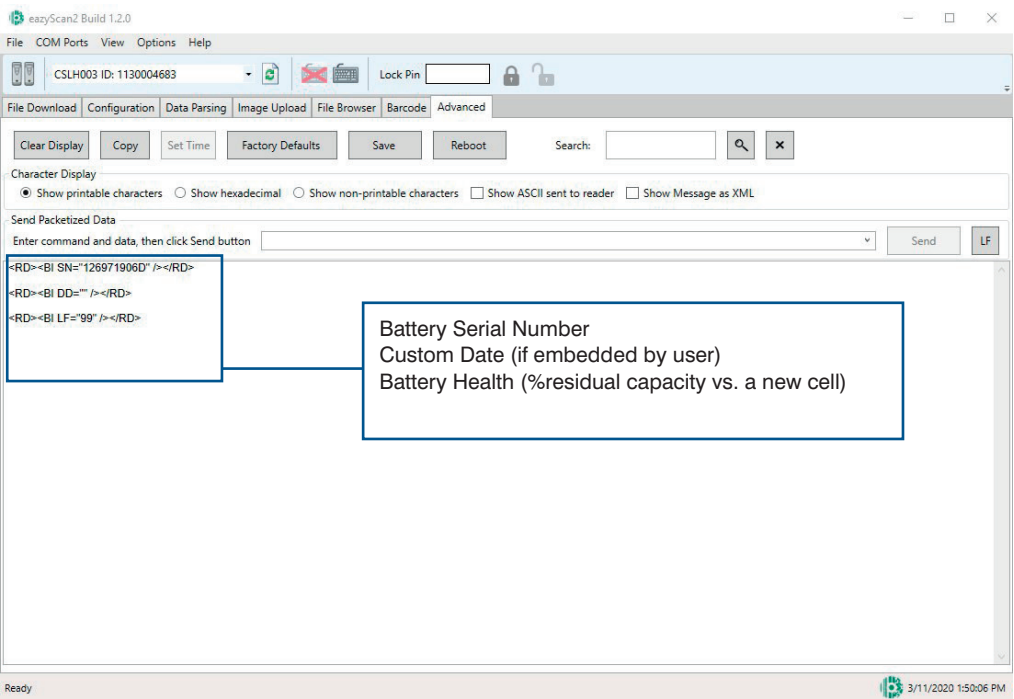
16.3 Battery Information

Scan the barcode below to obtain battery information.



M20402_01

Following data will be displayed:



Above information can also be output to a text application such as Notepad.



NOTE!
wenglor will periodically release new firmware for readers. For information on latest firm-
ware visit our website at www.wenglor.com/product/CSLH003.

17. Maintenance and Troubleshooting

17.1 Approved disinfectants for the CSLH003 readers

- Clorox® Non-Bleach Disinfecting Wipes
- Oxivir® Tb Wipes
- 3% Hydrogen Peroxide Solution
- Sani-Cloth® Plus Germicidal Wipes
- 91 % Isopropyl Alcohol Solution
- MetriCide® 28 Day Solution (2.5% Glutaraldehyde)
- CaviWipes® Disinfecting Towlettes
- Virex® II 256 Disinfectant Cleaner
- Cidex® OPA
- Sani-Cloth® HB Germicidal Wipes
- Sani-Cloth® PDI AF3 Wipes
- Super Sani-Cloth® Wipes
- Windex® Original
- Windex® Multi-Surface Anti-Bacterial Spray
- Formula 409® Glass and Surface
- Hepacide Quat® II
- Dispatch® Wipes

NOTE!

mixed disinfectants have not been tested or approved to use with any wenglor devices and may result in damage and void the warranty. Please avoid using mixed disinfectants or alternating use of different disinfectants, even of approved disinfectants.

Please note: Hand sanitizers are not approved disinfectants or cleaners and should not be used on the devices. Follow the instructions of hand sanitizer use and always rub hands dry or put on gloves before using wenglor devices.



17.2 Routine cleaning and disinfection

To maintain the highest performance of wenglor products, please follow the steps described below for routine maintenance and cleaning. Failure to follow proper cleaning procedures or using unapproved cleaners may result in the product warranty being voided.

Use only approved disinfectants and follow the instructions provided by the disinfectant manufacturers to clean and disinfect the devices. To prevent electric shock, always disconnect the charger from its power source before cleaning. Gently wipe plastic cases of the reader with battery installed and charging station with approved disinfectants. Never pour or spread liquid directly on the device. Do not remove the battery to clean the metal contacts on the battery or inside the battery compartment.

A dirty scan window will impact scanning performance. Never use any abrasive material to clean the window. Should the window become dirty, use a damp lint/dust free (or microfiber) cloth to wipe the window clean and allow air dry before use. Never spray any liquid directly on to the window. Never allow any liquid to pool around the window. Avoid using any liquid which may leave a residue or streaks on the window as it may impact scan performance.

17.3 Troubleshooting Guide

Problem	Possible Causes	Potential Solutions
Illumination and/or target-ing does not appear when a scan button or the trigger is pressed	Battery is out of power	Charge the battery or replace it with a freshly charged one. When charging, make sure LEDs on the battery are blinking.
	Hardware failure with the top LED on the scanner blinking red	Contact support
Illumination is on but the reader does not scan the barcode	Some symbologies are en-abled by default, but some are not	Make sure the symbology you are scanning is enabled. Symbologies can be enabled or disabled using configuration codes (M-Codes) on wenglor's website
The reader scans the barcode but fails to transmit the data to the host	Incorrect communication mode	Set the scanner to the correct communication mode using appropriate M-code available on wenglor's website (Note: USB Keyboard is the most common mode)
	eazyScan2 is Open	eazyScan2 takes ownership of the scanner, and data will be sent only to eazyScan2. Close eazyScan2.
The host receives incorrect data or misses characters	Incorrect Keyboard lan-guage	Use M-code to set the keyboard language to correspond to your system settings.
	Incorrect Communication Protocol	Find and scan the M-Code to set raw data or package data.
When power gauge on battery is pressed, no LEDs on the battery turn on	Battery may be out of power	Charge the battery or replace with a freshly charged one. When charging, make sure battery LEDs are blinking.
	Battery is malfunctioning	Replace the battery with a functioning one.

The reader beeps three times	Reader failed to connect to a Bluetooth charger	Make sure the charger is powered up (Wireless logo on the charger is lit or blinking) and scan the QuickConnect Code again.
	Decodes but fails to transfer data	Make sure scanner is connected to charger base by scanning the Quickconnect code.
Cannot connect with my Bluetooth device	Device does not support Bluetooth Low Energy connection	Use a compatible device that supports Bluetooth Low Energy
The reader beeps and vibrates four times after scanning configuration code	Reader successfully decodes but fails to process configuration code	Make sure to use the correct configuration codes for the reader
Wireless LED on reader flashing one time per second	Reader is not connected to a charger or host (PC, tablet, mobile phone that supports Bluetooth Low Energy)	Move the reader into the Bluetooth range of a charger/host. Scan the QuickConnect Code on the charger to pair and connect. Use Device Manager on the host to pair and connect with the reader
Wireless LED flashes once every 10 seconds	Reader is in sleep mode and out of charger	Place reader in charger or press any button to wake the reader up
Scanner beeps until a button is pressed	Paging has been turn on	Beeps until a reader button is pushed, paging button the charger is touched for more than 1 second, or paging times out (30 seconds by default)
Page button does not work	No reader is connected or reader is out of range. Paging LED flashes 3 times when touched for more than 1 second	Scan QuickConnect code to paired the scanner with the charger or bring the reader in range of the charger.
Wireless LED Flashes fast 7 times, no data can be sent	Base is attempting to connect to a reader	Make sure scanner is on and in range

18. Contact wenglor for support

If any problem is encountered when using a wenglor device, contact your facility's technical support first. If they determine the problem lies with the wenglor device, they should contact the wenglor Support department at support@wenglor.com

To obtain support, please provide following information:

- Device model number
- Device serial number
- Firmware version

wenglor Support will respond by telephone, or email.

19. Maintenance Instructions



NOTE!

- This wenglor sensor is maintenance-free.
- Cleaning and inspection of the plug connections at regular intervals are advisable.
- 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.

20. 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.

21. Change Index, Operating Instructions

Version	Date	Description/Change
1.0.0	10.06.2020	Initial version of the operating instructions

22. EU Declaration of Conformity

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

