

# HANDSCANNER

## USER MANUAL



**DATALOGIC**

Standard and Mid Range  
HandScanner

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## ABOUT THESE OPERATING INSTRUCTIONS


This user manual contains a system overview, technical data about the Hardware and Wearables, detailed step-by-step instructions for using HandScanner system and information about configuration settings and troubleshooting. It is intended for process planners, configurators and maintenance technicians who are using HandScanner system for the first time. It is designed so that HandScanner system can be used safely without prior knowledge. Read carefully before use and keep for future reference.


## EXPLANATION OF SYMBOLS


A warning notice is used in these instructions. Always read and observe this warning notice. The warning notice is introduced with the word **CAUTION** and means the following:

 **CAUTION**  
Slight bodily injury or danger of physical damage to HandScanner system is possible.

In addition, other symbols are used with the following meanings:


 **NOTE**  
Additional notices provide more information about the respective chapter.


 **TIP**  
Additional tips facilitate the implementation of a certain procedure.


 **RESULT**  
The result will show the outcome of the prior action.


## SAFETY INSTRUCTIONS


### Hardware


 **CAUTION**  
Keep all cables and wires away from high voltage sources! This may otherwise lead to damage or faults due to overvoltage, line noise, electrostatic discharge or other irregularities.

 **CAUTION**  
Do not use damaged cables! Otherwise the safe functioning of HandScanner system cannot be ensured.


 **CAUTION**  
Do not unscrew the Hardware housing! This may otherwise lead to HandScanner system not functioning properly.


 **CAUTION**  
Do not replace the battery of the HandScanner! This may otherwise lead to HandScanner not functioning properly.

 **CAUTION**  
Do not modify HandScanner system! This may otherwise lead to HandScanner system not functioning properly.

 **CAUTION**  
Do not stare directly into beam! Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous laser light exposure. Class 2 laser HandScanners use a low power, visible light diode. As with any very bright light source, such as the sun, the user should avoid staring directly into the light beam. Momentary exposure to a Class 2 laser is not known to be harmful.

### Wearables

 **CAUTION**  
Keep Wearables away from moving machine parts and do not use without a HandScanner! Otherwise the Wearables may get stuck on objects.

 **CAUTION**  
Use Wearables in the right size! Otherwise this may cause pain or pressure points on your hand.



# SCOPE OF DELIVERY



## CAUTION

Do not use any damaged Hardware or Wearables! Check whether Hardware and Wearables are properly packaged and undamaged.

### HandScanner



Standard range



Mid range

### Wearables



Hand Trigger

### Connectivity device



Datalogic Gateway with USB cable

### Charging stations



Datalogic Charging Station with power cable (USB-C) and power supply



Datalogic 10-Slot Charging Station with power supply

# HANDSCANNER

## HandScanner Overview

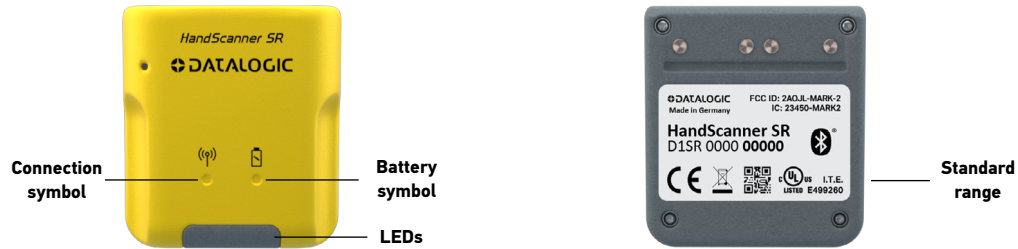
After scanning a barcode, the HandScanner returns feedback signals: haptically by vibrations, acoustically by audio signals and optically by LEDs. The serial number on the rear label indicates whether it is a standard or mid range device.

- Standard range serial number: D1SR ...
- Mid range serial number: D1MR ...

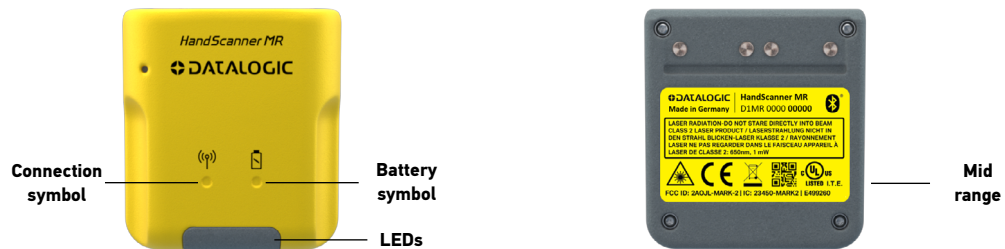
Standard range: 4 - 31 in (10 - 80 cm)

Mid range: 12 - 59 in (30 - 150 cm)

### HandScanner (standard range)



### HandScanner (mid range)



## HandScanner Technical Data

| Mechanical properties |   |
|-----------------------|---|
| Dimensions            | 50 x 45 x 16 mm (1.96 x 1.77 x 0.63 in) |
| Weight                | 40 g (1.41 oz)                          |

| Electrical properties |  |
|-----------------------|--|
| Battery type          | 670 mAh, Lithium polymer (rechargeable)                                    |
| Charge time           | 2 hours with Datalogic Charging Station                                    |
| Number of scans       | up to 10,000 scans (depending on application and environmental conditions) |

| Decoding capability |  |
|---------------------|--|
| 1D                  | Auto discriminates all standard 1D codes including GS1 DataBar™ linear codes.        |
| 2D                  | PDF417, MicroPDF417, Data Matrix, QR Code, Micro QR Code, Aztec, MaxiCode            |
| Postal              | US PostNet, US Planet, UK Postal, Australia Postal, Japan Postal, Dutch Postal (KIX) |

| Environmental properties      |   |
|-------------------------------|---|
| Drop resistance               | Resists multiple drops from 2 m (6.5 ft) onto concrete  |
| Tumbles                       | 2000 at 0.5 m (1.6 ft)  |
| Impact resistance             | IEC60068-2-75, IK06(1J)   |
| Particulate and water sealing | Resistant to dust and water   |
| Temperature                   | Operating temperature: 0 to 50 °C (32 to 122 °F)<br>Charging temperature: 5 to 40 °C (41 to 104 °F)<br>Storage temperature: -20 to 60 °C (-4 to 140 °F) |

| LED classification |   |
|--------------------|---|
| Standard range     | Excluded risk group LED product according to IEC/EN 62471 |
| Mid range          | CDRH Class 2 / IEC 825 Laser Class 2 Device               |

| Safety & Regulatory      |   |
|--------------------------|---|
| Agency approvals         | Compliant to EU and NA applicable standards |
| Environmental compliance | Compliant to EU RoHS and REACH regulations. |

| Interfaces |   |
|------------|---|
| Interfaces | Bluetooth: HID Profiles<br>Android: HID, App/SDK<br>iOS: HID, iOS SDK<br>USB: Datalogic Gateway, USB HID (keyboard input on host), USB CDC (virtual com port) |



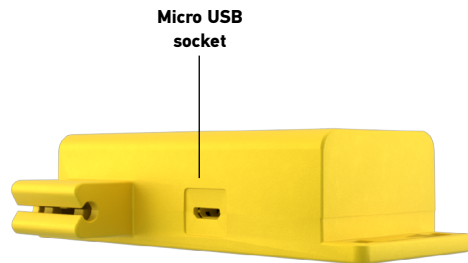
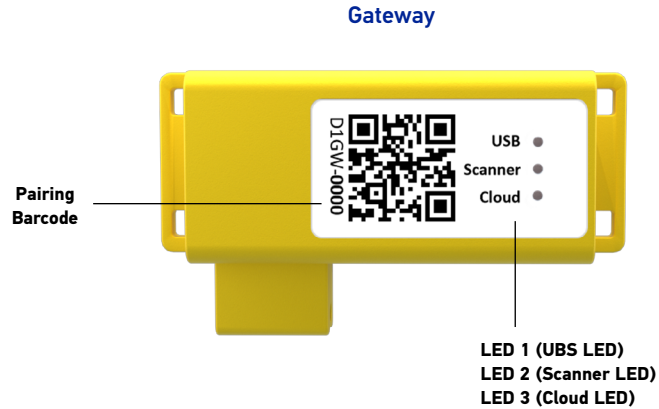
NOTE

Further technical specifications are available at [datalogic.com/support](https://datalogic.com/support).

# CONNECTIVITY DEVICE

## Gateway Overview

The Gateway receives the scanned barcode data from the HandScanner via BLE. This barcode data is transmitted to the end device via USB cable. In the USB HID mode, the Gateway simulates a computer keyboard. A serial connection is emulated in the USB CDC mode. In order to use the USB CDC mode, the device must be set to "USB CDC" in the Configuration Tool <https://www.datalogic.com/handscanner/config> under "Connectivity Configuration - Integration path". Also multipairing is possible. The Gateway can be connected with up to 5 HandScanners simultaneously. See "Connection with USB cable in USB CDC mode" on page 11.



## Gateway Technical Data

| Mechanical properties |  |
|-----------------------|--|
| Dimensions            | 3.74 x 2.06 x 0.94 in<br>(95 x 52.3 x 23.8 mm) |
| Weight                | 1.5 oz<br>(42.5 g)                             |

| Electrical properties                 |                                 |
|---------------------------------------|---------------------------------|
| Power supply of Gateway via USB cable | 5 VDC (0.5 A) via host computer |

| Utilities and accessories |   |
|---------------------------|---|
| Configuration Tool        | <a href="https://www.datalogic.com/handscanner/config">https://www.datalogic.com/handscanner/config</a> |

| Connection options |                                  |
|--------------------|----------------------------------|
| USB                | USB HID (keyboard input on host) |
|                    | USB CDC (virtual com port)       |

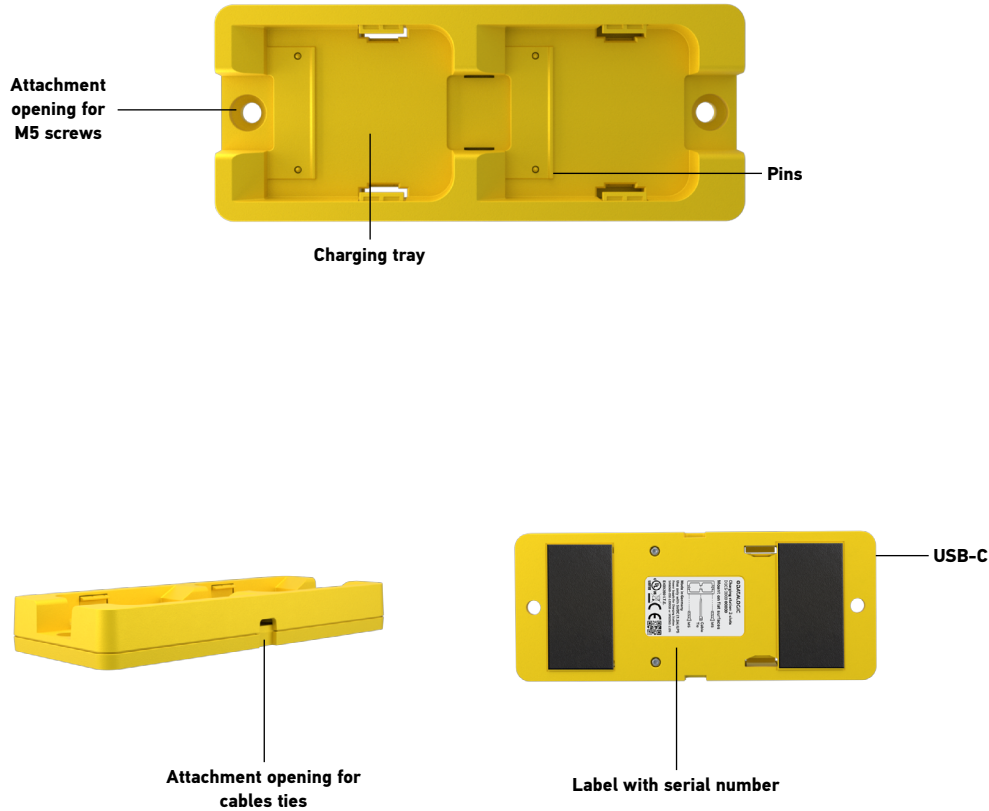
**i** NOTE  
Further technical specifications are available at [datalogic.com/support](https://www.datalogic.com/support).

# CHARGING STATION

## Charging Station Overview

The Charging Station consists of two charging trays that charge two HandScanners at the same time. The charging status is indicated by the LEDs of the HandScanner. The LEDs pulse red while in charging mode. When the battery is fully charged, the LEDs pulse green constantly. It takes about 2 hours to charge a HandScanner. The Charging Station can be attached to work stations, for example, through the attachment openings (with M5 screws or cable ties).

Charging Station



## Charging Station Technical Data

| Mechanical properties |   |
|-----------------------|---|
| Dimensions            | 5.5 x 2.2 x 0.75 in<br>(140 x 56 x 19 mm) |
| Weight                | 3.88 oz<br>(110 g)                        |

| Electrical properties |  |
|-----------------------|--|
| Power supply          | 5 VDC (1.2 A) via power supply PS-MCHS7500 |
| Charging time         | 2 hours                                    |

**i** NOTE  
Further technical specifications are available at [datalogic.com/support](https://datalogic.com/support).

## 10-SLOT CHARGING STATION

### 10-Slot Charging Station Overview

The 10-Slot Charging Station provides multiple options to mount to flat surfaces, workstations and racks. The charging status is indicated by the LEDs of the scanner. The LEDs pulse red while in charging mode. When the battery is fully charged, the LEDs pulse green constantly. It takes about 2 hours to charge a scanner.

### Mounting



#### CAUTION

Do not mount the 10-Slot Charging Station higher than 2 meters!

On the front and back side are different holes and recesses to enable secure mounting of the 10-Slot Charging Station (with screws and/or zip-ties).

Two wall mount slots on the back side can be used to fix the device with screw heads 135 mm apart from each other. The rail slot on the back enables mounting to a standard DIN rail, facilitating the installation in an IT rack or similar constructions. Additionally, the 10-Slot Charging Station can be installed on a monitor arm or stand with holes 75 mm apart horizontally and vertically.

10-Slot Charging Station



### 10-Slot Charging Station Technical Data

#### Mechanical properties

|            |   |
|------------|---|
| Dimensions | 11.73 x 7.99 x 0.98 in<br>(298 x 203 x 25 mm) |
| Weight     | 776.03 oz<br>(2.2 kg)                         |

#### Electrical properties

|               |   |
|---------------|---|
| Power supply  | 24 VDC (1.67 A) via provided power supply. Use the provided power supply only. Using any other type of AC power supply is prohibited. |
| Charging time | 2 hours   |



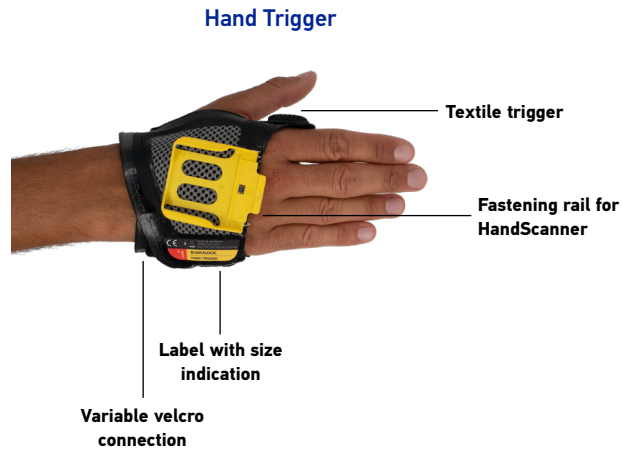
#### NOTE

Further technical specifications are available at [datalogic.com/support](https://datalogic.com/support).

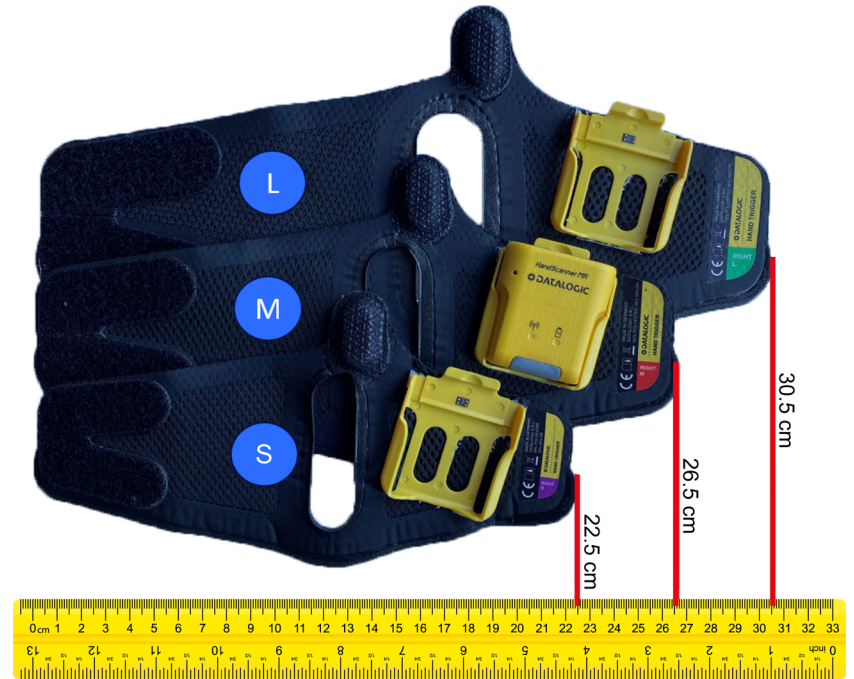
## WEARABLE

### Hand Trigger Overview

The Textile Trigger is located on the index finger and is attached to the right or left glove, depending on the design. The Hand Trigger can be used in applications where free fingertips are needed or can be worn over other gloves. The Hand Trigger is a consumable which must be changed regularly after use.



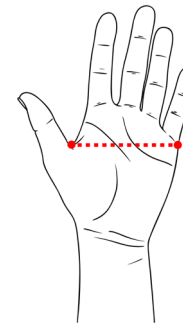
### Hand Trigger Available Sizes



### Hand Trigger Properties

| General         |                                    |
|-----------------|------------------------------------|
| Packaging unit  | 10 pieces per package              |
| Available sizes | S, M, L                            |
| Materials       | Nylon, Polyester, MDF, EVAC (glue) |

| Safety & Certification |  |
|------------------------|--|
| Standards              | EN388 (2131)<br>EN420  |
| Certification          | RoHS<br>CE mark  |
| Environmental          | RoHS Directive 2011/65/EU; Amendment 2015/863/EU, REACH SVHC 1907/2006, CE, WEEE |



| Size   | Palm Width                         |
|--------|------------------------------------|
| Small  | 5.5 cm - 8 cm (2.1 in - 3.1 in)    |
| Medium | 8 cm - 9.5 cm (3.1 in - 3.7 in)    |
| Large  | 9.5 cm - 11.5 cm (3.7 in - 4.5 in) |



NOTE

Further technical specifications are available at [datalogic.com/support](https://datalogic.com/support).

# APPLICATION OF HANDSCANNER SYSTEM

## 1<sup>st</sup> Step: Charge HandScanner



### CAUTION

Only use HandScanner in a dry Charging Station and only touch with dry hands! This may otherwise lead to the Charging Station not functioning properly.



The pins face down.  
Insert HandScanner into the Charging Station by sliding it in from the back without applying excessive force.



### RESULT

HandScanner pulses red and charges in the Charging Station.



### NOTE

The LEDs pulse red while in charging mode. When the battery is fully charged, the LEDs pulse green. It takes about 2 hours to charge a HandScanner.

## 2<sup>nd</sup> Step: Connect the Gateway



### CAUTION

Only touch the Gateway with dry hands! This may otherwise lead to the Gateway not functioning properly.



### NOTE

The following steps are only needed when connecting via Gateway.

## Connection with USB cable in USB HID mode



1. Connect the USB cable with the end device.



2. Plug the other end of the USB cable into the Micro USB socket of the Gateway. A clear clicking sound confirms the correct fastening.

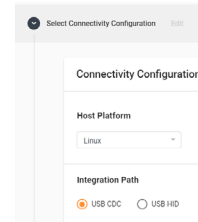


### RESULT

The LED of the Gateway lights up green. The boot up of the Gateway takes around 2min until the LED 1 lights up green. The Gateway is connected to the end device.

## Connection with USB cable in USB CDC mode

Follow the previous step 1 and step 2 for "Connection with USB Cable in USB HID Mode". Continue with the following steps:



3. in the configuration tool <https://www.datalogic.com/handscanner/config> under "Connectivity Configuration > Integration Path" select USB CDC. More detailed information about this can be found in "Configure Devices and Firmware Updates" on page 18

4. Connect with the COM port on the end device.



### RESULT

The LED of the Gateway lights up green. The boot up of the Gateway takes around 2min until the LED 1 lights up green. The Gateway is connected to the end device.



### 3<sup>rd</sup> Step: Switch on the HandScanner



1. Position HandScanner on the fastening rail of the wearable. The pins face down.
2. Push HandScanner down. A clear clicking sound confirms the correct fastening.
3. Press the textile trigger on the wearable for about 2 seconds.



#### RESULT

HandScanner lights up with all LEDs. You can hear a beeping sound and feel a short vibration. HandScanner is switched on.



#### NOTE

HandScanner switches off automatically after 15 minutes without being used.

### 4<sup>th</sup> Step: Connect the HandScanner

#### Connect via Gateway



1. Press the textile trigger on the wearable in order to activate the red crosshairs.



2. Aim HandScanner crosshairs on the Gateway and scan the pairing barcode on the Gateway.



#### RESULT

HandScanner lights up twice. You can hear a beeping sound and feel a short vibration. HandScanner is connected to the Gateway.

### 4<sup>th</sup> Step: Connect the HandScanner (BLE)

#### Connect via Insight Mobile

You can connect the HandScanner to the Insight Mobile App. Please always download the latest version of Insight Mobile from <https://www.datalogic.com/handscanner/config>, "Downloads" section. Information on how to use the software can be found at <https://www.datalogic.com/handscanner/developer>.

#### Connect via BLE HID to and end device

The HandScanner can be used to establish a connection via Bluetooth Low Energy Human Interface Device (BLE HID) to an end device. Possible operating systems are: Apple iOS, Google Android, Microsoft Windows. The individual steps for connecting to the respective operating systems for the first time can be found in the following.

#### Prerequisites:

- The end device supports at least Bluetooth 4.0 standard
- No interference or physical obstacles (e.g. metal shelves) interfere with the connection between the HandScanner and the end device
- The range between the HandScanner and the end device is < 33 ft (10m)



#### TIP 1

Visually label the connected devices (HandScanner with the end device), e.g. using numbering or a color code. This will allow the user to find the right devices faster.



#### TIP 2

Adhere the pairing barcode to the end device. In this way, the user can find it quickly and easily.

On a battery-operated end device, the power-saving mode can lock the end device and HandScanner simultaneously. Permanently disable the power-saving mode of the end device.

The last 5 digits of the serial number attached to the back side identify the HandScanner among the available Bluetooth devices.

Read the serial number of the HandScanner.



#### RESULT

Example serial number: DLHS - 00000.

To make the HandScanner visible for the end device, the HandScanner must be put into pairing mode:



1. Press the textile trigger on the wearable in order to activate the red crosshairs.



2. Aim the HandScanner crosshairs at the pairing barcode and scan.

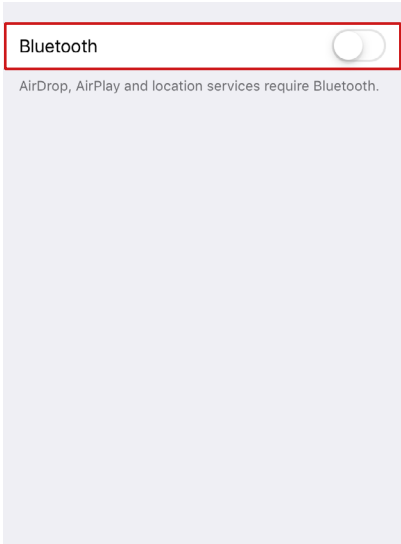


#### RESULT

HandScanner pulses blue and beeping sounds can be heard. HandScanner is searching for an end device in pairing mode.

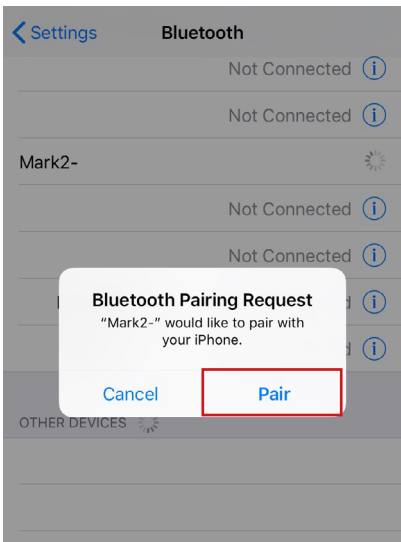


# 01



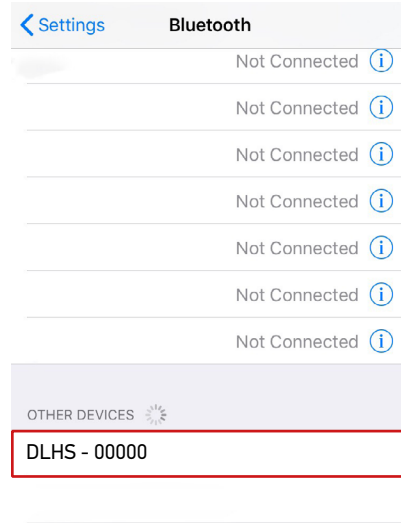
Under "Settings - Bluetooth," activate the Bluetooth option.

# 03

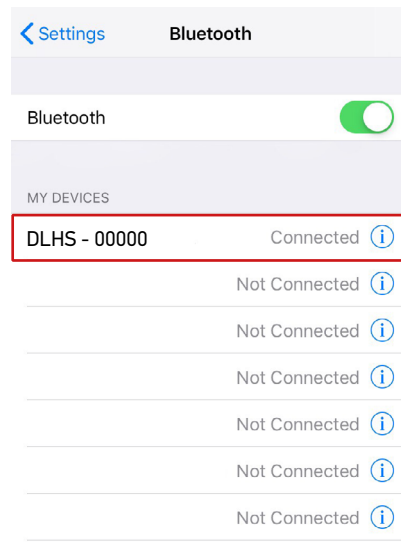


Confirm the "Bluetooth Pairing Request".

# 02

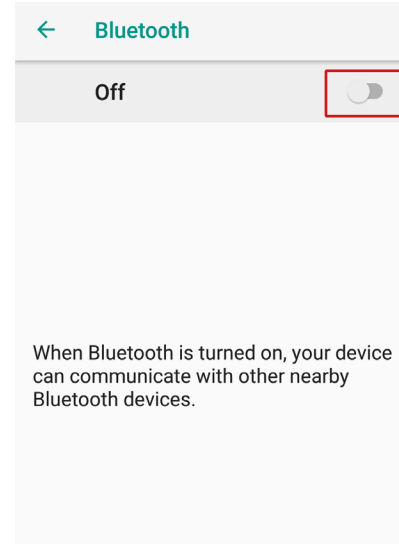


Select "DLHS - 00000".



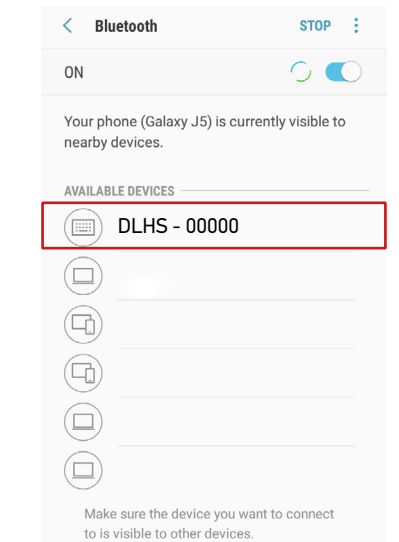
The HandScanner will flash blue twice and you will hear two beeps. The HandScanner will be shown as connected under "My devices" and is ready for use.

# 01



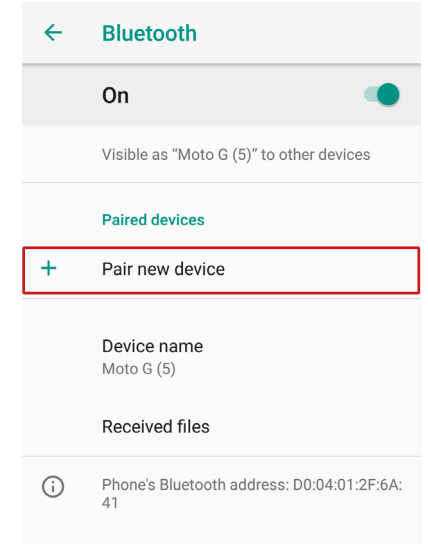
Under "Settings - Connected devices," switch on the Bluetooth option.

# 03

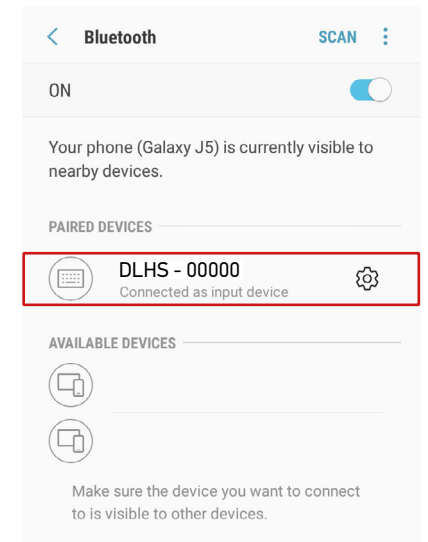


Select "DLHS - 00000".

# 02

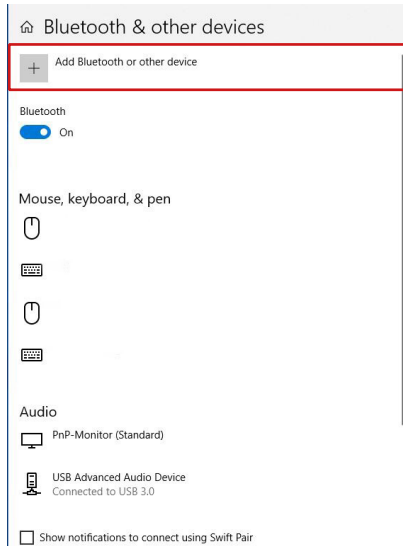


Tap "Bluetooth" and select "Pair new device".



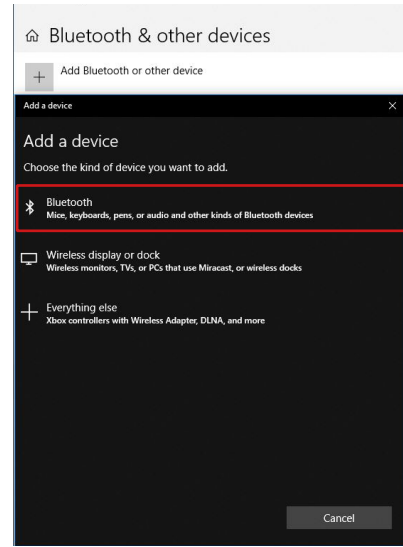
The HandScanner will flash blue twice and you will hear two beeps. The HandScanner will be shown as connected under "Paired devices" and is ready for use.

# 01



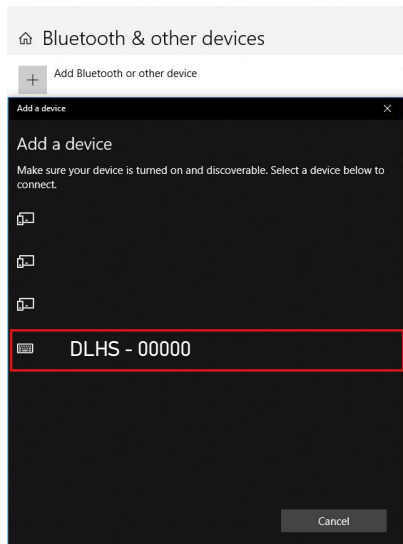
Under "Bluetooth & other devices," click on "Add Bluetooth and other devices".

# 02



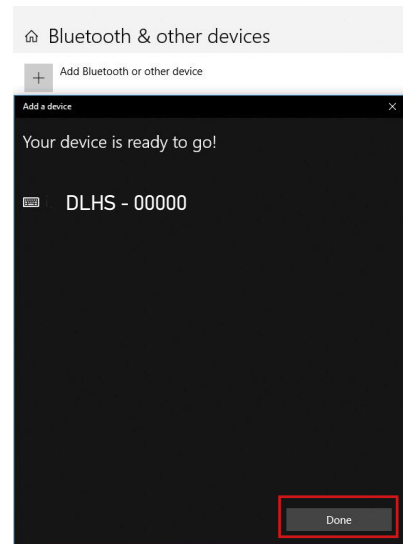
Select the option "Bluetooth: Mouses, keyboards and other types".

# 03

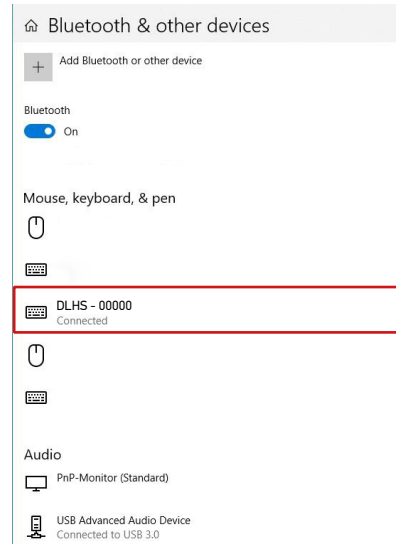


Select "DLHS - 00000".

# 04



Click "Done".



The HandScanner will flash blue twice and you will hear two beeps. The HandScanner will be shown as connected under "Bluetooth & other devices," and is ready for use.

## 5<sup>th</sup> Step: Scan



### CAUTION

For mid range scanning range: do not look directly into the crosshairs! Otherwise this can lead to temporary blinding effects.



IBC: 10/014

The HandScanner is an omnidirectional scanner. HandScanner can thus scan barcodes from different angles. For a standard range device (serial number: D1SR...), the scanning range is between 4 - 31 in (10-80 cm) per application case and barcode size. For a mid range device (serial number: D1MR...), the scanning range is 12 - 52 in (30-150 cm) per application case and barcode size.

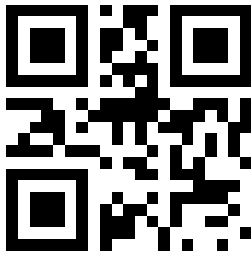


1. Press the textile trigger on the wearable in order to activate the red crosshairs.



2. Aim HandScanner crosshairs on the barcode and scan.

#### Example Barcode



Content: "Datalogic"



#### RESULT

HandScanner lights up green. You can hear a beeping sound and feel a short vibration. HandScanner has scanned the example barcode and transmitted it to the end device.

## 6<sup>th</sup> Step: Disconnect HandScanner

### Disconnect HandScanner from the Gateway



Place HandScanner in the Charging Station.



#### RESULT

HandScanner is disconnected from the Gateway and can be connected to a new one.

### Disconnect the Connection Cable from the Gateway



Disconnect the connection cable out of the Micro USB socket.



#### NOTE

This will cause ALL paired devices to disconnect from the Gateway.



#### RESULT

The LED of the Gateway no longer lights up green. The connection cable is disconnected from the Gateway.

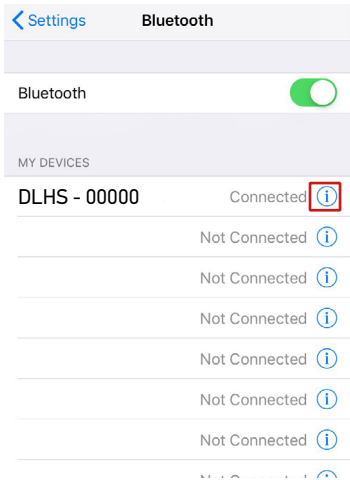
## 6<sup>th</sup> Step: Disconnect HandScanner (BLE HID)



**NOTE**  
Only disconnect HandScanner if this is to be newly connected to another end device.

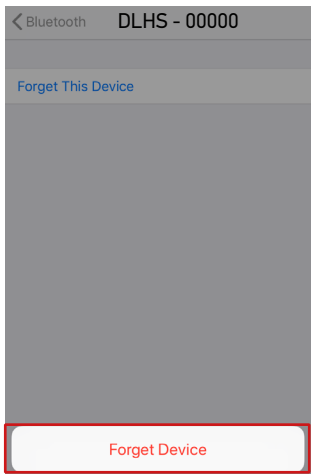
### Disconnect from Apple iOS

# 01



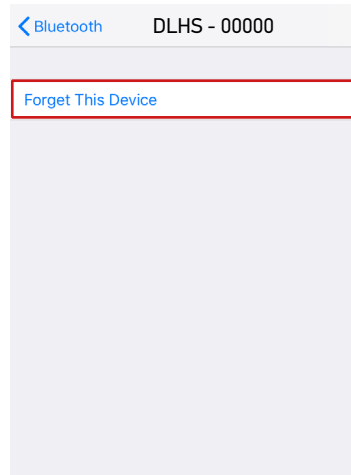
Under "Settings - Bluetooth," tap on the information symbol.

# 03

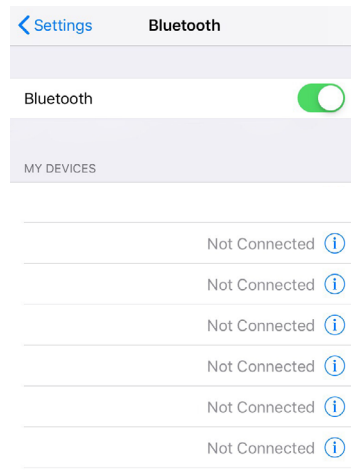


Confirm "Forget Device".

# 02



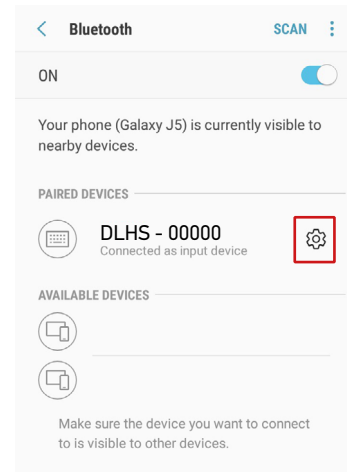
Tap on "Forget This Device".



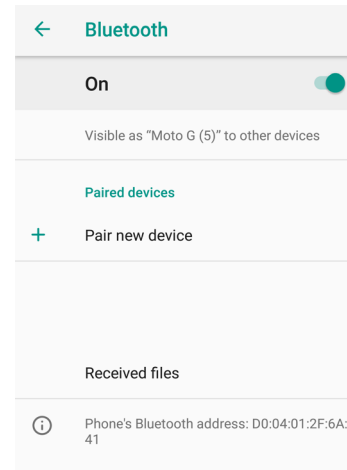
The HandScanner will flash red three times and you will hear three beeps. HandScanner will no longer be shown as connected under "My devices."

### Disconnect from Google Android

# 01

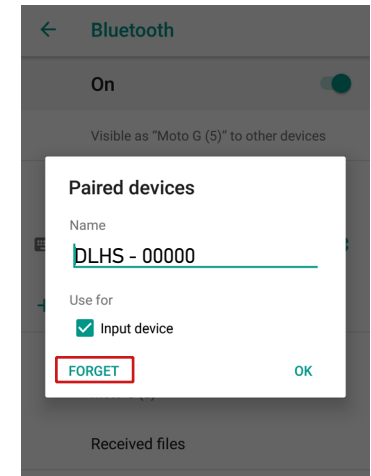


In the Bluetooth option under "Paired devices," tap on the gear wheel symbol of "DLHS - 00000."



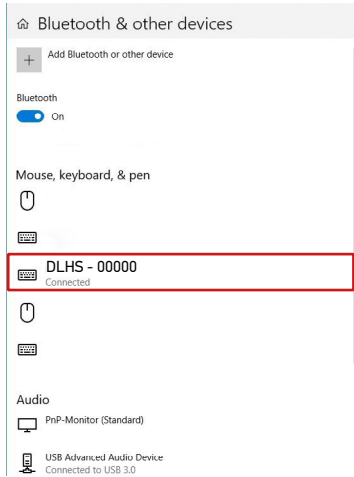
The HandScanner will flash red three times and you will hear three beeps. HandScanner will no longer be shown as connected under "Paired devices."

# 02



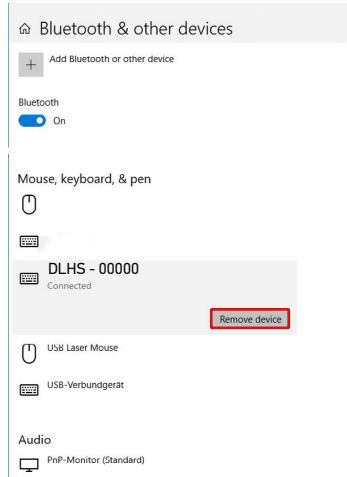
Select "Forget".

# 01



Under "Bluetooth & other devices," select "DLHS - 00000."

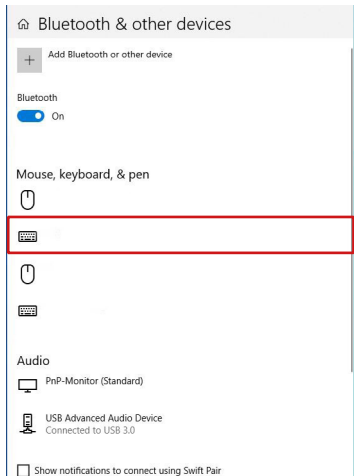
# 02



Click "Remove device."



RESULT



The HandScanner will flash red three times and you will hear three beeps. HandScanner will no longer be shown as connected under "Bluetooth & other devices."

## 7<sup>th</sup> Step: Release HandScanner from Wearable



CAUTION

Do not rub over the pins of the wearable with the HandScanner! This may otherwise lead to bended pins.



1. Use your fingers to press between HandScanner and the fastening rail of the wearable.



2. Press HandScanner up slightly and push it forward.

## CONFIGURATION TOOL REGISTRATION AND LOGIN

The first time you access the Configuration Tool (<https://www.datalogic.com/handscanner/config>), you will be requested to register in order to obtain the following credentials:

- Customer ID: an identifier shared by all the users inside your organization
- Email: your personal email
- Password: your password

**i** NOTE  
The registration needs to be validated before your first access. Follow this procedure to request your credentials:

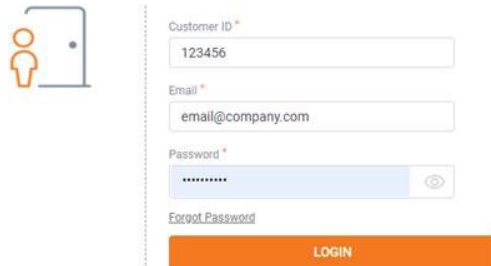
1. Go to <https://www.datalogic.com/handscanner/config> and click the "Register now" button.

REGISTER NOW

2. Fill in the Registration form with the required information, then click the "Register an Account" button.

REGISTER AN ACCOUNT

3. Your request will be verified and your credentials will be transmitted to the specified email address. The verification process may take up to two days.
4. Follow the instructions in the confirmation email to access the Configuration Tool.
5. For subsequent access to the Configuration Tool, go to <https://www.datalogic.com/handscanner/config> and fill in the "Sign in" form to continue:



Customer ID \*

123456

Email \*

email@company.com

Password \*

\*\*\*\*\*

[Forgot Password](#)

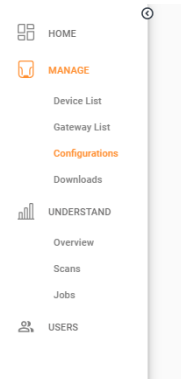
LOGIN

## CONFIGURE DEVICES AND FIRMWARE UPDATES

The configuration tool under <https://www.datalogic.com/handscanner/config> can be used to individually set the Hand-Scanner system and improve scanning processes.

- To update the firmware proceed with "7th Step: Configure Devices and Gateway Firmware Update" on page 19.
- To create a new configuration proceed with "1st Step: Opening Configurations" on page 18.

### 1st Step: Opening Configurations



1. Go to Configurations in the Insight navigation.

2. Select a saved configuration or create a new one.

Configurations

| CONFIG FILE NAME   | LAST MODIFIED UTC+2 | CREATED UTC+2   |  |
|--|---------------------|-----------------|--|
| <input type="checkbox"/> lb_gateway2_client_interleaved_2_5_Check_Digit_Verification | 7/1/20, 1:17 PM     | 7/1/20, 1:17 PM |  |
| <input type="checkbox"/> default   | 7/1/20, 1:11 PM     | 7/1/20, 1:11 PM |  |

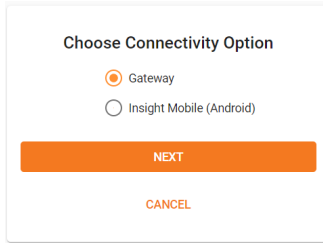
DOWNLOAD CONFIGURATION

CREATE NEW CONFIGURATION

**i** NOTE  
To install a saved configuration, proceed with "7th Step: Configure Devices and Gateway Firmware Update" on page 19.

## 2<sup>nd</sup> Step: Create a New Configuration

Choose which connectivity option is used and need to be configured.



## 3<sup>rd</sup> Step: Connectivity Configuration

Here it is possible to configure the connectivity settings according to the end device selected previously. For example, if you selected "Gateway" you can choose HID or CDC mode. It is also possible to adjust the maximum number of HandScanners that can connect to the Gateway (multipairing - up to 5 devices). If you selected "Insight Mobile", you can choose the type of Integration Path (Software Keyboard, Intent, SDK).

Choose the preferred settings. Information on the different connectivity options can be found at <https://www.datalogic.com/handscanner/developer>.

## 4<sup>th</sup> Step: Device Settings

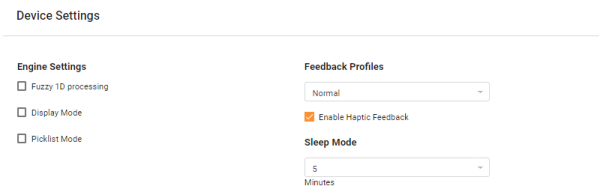
The Device Settings can be used to optimize the HandScanner for certain use cases.

The **Engine Settings** allow to improve the readability of barcodes:

- activate Fuzzy 1D processing for hard to read 1D barcodes
- activate Display mode for barcodes on screens or foils
- activate Picklist mode to enable a more accurate aiming with the scanning field

The **Feedback profiles** allow to customize the HandScanners feedback.

The **Sleep Mode** determines the duration of inactivity after which the HandScanner turns off.



## 5<sup>th</sup> Step: Symbology Settings

The Symbology Settings can be used to switch the barcode types (including inverse barcodes) on or off and to set barcode lengths, edge tolerances as well as check digits.

- Switch off unused barcode types.
- Switch on inverse barcode types if needed.

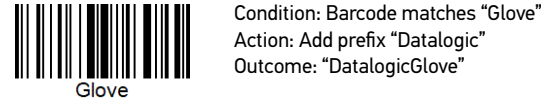
## 6<sup>th</sup> Step: Workflow Rules

The Workflow Rules can be used to manipulate the barcode data. These can be used to change barcode data through rules with conditions and actions. These are then in an IF-THEN relationship with each other, which means that:

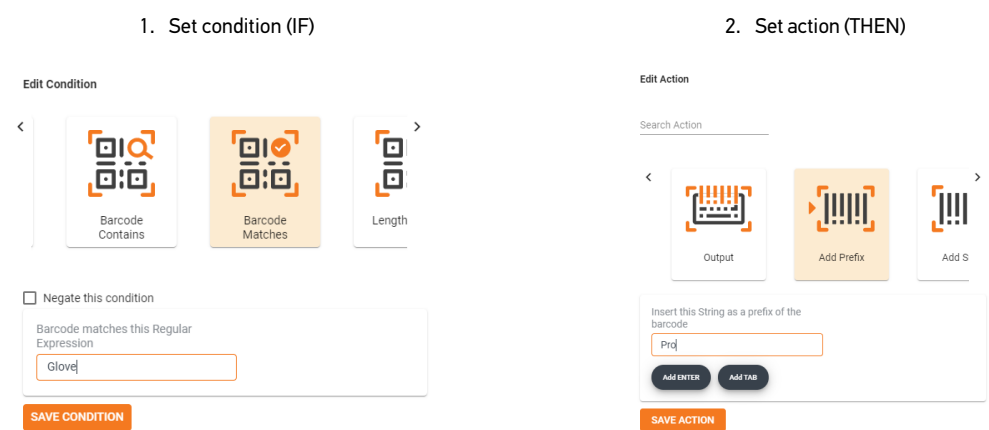
**IF** a condition is true, **THEN** an action is executed.  
An action is also carried out without a condition.

### Application example:

Insert the prefix "Datalogic" for the following barcode:



Create the condition "Barcode Matches: Gloves" and the action "Add Prefix Datalogic."



## 7<sup>th</sup> Step: Configure Devices and Gateway Firmware Update

For the **configuration** of the device:

- Click *Next*. Follow the instructions to apply the configuration in different modes (e.g. File Transfer or Barcode scanning).

For a **firmware update**:

- To upgrade the HandScanner firmware, download the latest version of Insight Mobile App from <https://www.datalogic.com/handscanner/config>, "Download" section. The App will upgrade the firmware of the paired HandScanner if an update is available.
- To upgrade the Gateway, download the latest Gateway firmware version at <https://www.datalogic.com/handscanner/config>, "Downloads" section. Then follow the procedure below for the Gateway.

### To configure Insight Mobile:

Copy the downloaded configuration file in the following folder on your mobile device:  
(/sdcard)/Android/data/de.proglove.connect/files



RESULT

The configuration file will be deployed automatically on the mobile phone.

## To configure the Gateway:



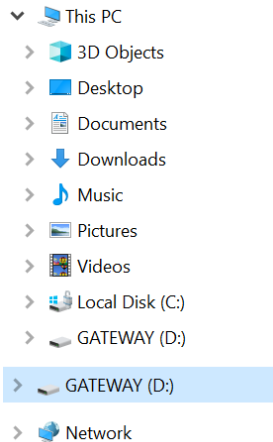
1. Connect the Gateway with the computer. The Gateway boots up. This takes about 2 min and is finished when the USB LED shows constant green light.



2. Scan the Pairing Barcode on the Gateway.



3. Scan this barcode to enable the Gateway as a mass storage device on the computer.



4. Copy the downloaded configuration file or the firmware file into the mass storage device Gateway.

5. Eject the Gateway mass storage from your File Explorer (e.g. on Windows, right-click on the Gateway and click on *Eject*).



### CAUTION

Do not disconnect the Gateway from the computer during the upload!



### RESULT

The upload of the configuration takes about 5 seconds / the upload of the firmware takes about 2 minutes and is finished when the USB LED shows constant green light. The Gateway is now configured / updated and can be connected to a HandScanner.








### NOTE

The configuration will be applied to the HandScanner and the Gateway directly. HandScanners that get connected to the Gateway later will receive the same configuration!








# SIGNAL TABLES




## General HandScanner

| Description  | LED  | Connection symbol  | Battery symbol  | Audio signal  | Vibration  |
|--|---|---|--|--|--|
| Barcode data could be transferred                  | Short green flashing  |   |  | Short positive beep  | Short vibration  |
| Barcode data could not be transferred              | Red flashing 3 times briefly  |   |  | Long negative beep   | Long vibration   |
| Battery charge under 10%                           |   |   | Slow red flashing  |  |  |
| Battery charge under 7%                            |   |   | Red flashing 3 times briefly   |  |  |
| Switch on HandScanner with battery charge under 5% |   |   | Red flashing 3 times briefly   |  |  |
| Battery charge under 95%                           |   |   | Pulsating red  |  |  |
| Battery charge over 95%                            |   |   | Constantly green   |  |  |

## HandScanner Connection via BLE

| Description                                     | LED  | Connection symbol  | Battery symbol  | Audio signal  | Vibration  |
|---|---|---|--|--|--|
| HandScanner searches for an end device          | Blue pulsating  | Blue pulsating  |  | Continuously rising beep   |  |
| HandScanner is connected to an end device       | Blue flashing 2 times briefly   | Blue flashing 2 times briefly   |  | Short rising positive beep   | Short vibration  |
| HandScanner cannot connect to the end device    | Red flashing 3 times briefly  |   |  | Negative beep briefly 3 times  | Long vibration   |
| HandScanner is disconnected from the end device | Red flashing 3 times briefly  |   |  | Negative beep briefly 3 times  | Long vibration   |

## Gateway

| Description  | LED 1 (USB - LED)  | LED 2 (Scanner - LED)  | LED 3 (Cloud - LED)  |
|--|---|---|---|
| Gateway boots up <sup>1</sup>  | Left to right run through all LEDs alternating Blue / Green until start                               |   |   |
| Gateway is connected to the end device via USB   | Constantly green  |   |   |
| Gateway is not connected to the end device via USB   | No feedback   |   |   |
| Gateway searches for a HandScanner   |   | Pulsing blue  |   |
| Gateway is connected to the HandScanner via BLE  |   | Constantly green  |   |
| Firmware Update: Gateway is in download mode   | Constantly yellow   | Constantly yellow   | Constantly yellow   |
| Firmware Update: Hand-Scanner is flashing / Gateway deploys                                | Constantly purple   | Constantly purple   | Constantly purple   |
| Firmware Update: Gateway is flashing   | left to right run through all LEDs alternating purple until done                                      |   |   |
| Firmware Update: successful  | Long green flashing   | Long green flashing   | Long green flashing   |
| Gateway is connected to a HandScanner and is searching for more HandScanners               |   | Constantly green  |   |
| Gateway cannot connect to another HandScanner  |   | Constantly red  |   |
| Gateway cannot connect to another HandScanner but another HandScanner is trying to connect |   | Red flashing 3 times briefly  |   |

<sup>1</sup> It take approx. 2 minutes to boot up.

## COMPATIBILITY WITH DATALOGIC MOBILE TERMINALS

|  | Model   | Bluetooth HID                 | USB Gateway HID mode    | USB Gateway CDC mode | Insight Mobile App | Insight Mobile SDK |
|--|---|-------------------------------|-------------------------|----------------------|--------------------|--------------------|
|  | Falcon X3+  | Not compatible                | Not applicable          |                      | Not compatible     |                    |
|  | Skorpio X4 / Falcon X4 (Android)                    | OK                            | Not applicable          |                      | Not compatible     |                    |
|  | Skorpio X4 / Falcon X4 (Windows Embedded Compact 7) | Not compatible                | Not applicable          |                      | Not compatible     |                    |
|  | Skorpio X5  | OK                            | Not applicable          |                      | OK                 | OK                 |
|  | Joya Touch  | Not compatible                | Not applicable          |                      | Not compatible     |                    |
|  | Joya Touch A6                                       | OK                            | Not applicable          |                      | OK                 | OK                 |
|  | Memor X3  | Not compatible                | Not applicable          |                      | Not compatible     |                    |
|  | Memor 1   | OK                            | Not applicable          |                      | OK                 | OK                 |
|  | Memor 10  | OK                            | Not applicable          |                      | OK                 | OK                 |
|  | Memor 20  | OK                            | Not applicable          |                      | OK                 | OK                 |
|  | Memor K **  | OK                            | Not applicable          |                      | OK                 | OK                 |
|  | Rhino II (Android)                                  | OK                            | OK                      | OK                   | Not compatible     |                    |
|  | Rhino II (Windows Embedded Compact 7)               | Not compatible                | OK                      | Not compatible       | Not compatible     |                    |
|  | Rhino II (Windows Embedded 7)                       | Not compatible                | OK                      | OK *                 | Not compatible     |                    |
|  | Rhino II (Windows 10 IoT)                           | OK with Bluetooth 4.0 adapter | OK                      | OK                   | Not compatible     |                    |
|  | Taskbook  | OK                            | OK with docking station |                      | Not compatible     |                    |

\* Additional software driver is required for CDC mode on Windows Embedded 7. To download it, go to [www.datalogic.com](http://www.datalogic.com) and from the home page click on the search icon, type in the name of the product, then go to the Software & Utilities section.

\*\* Only with HandScanner firmware version 2.2.0 or later.

### Legend

|  |                                  |
|--|----------------------------------|
|  | Fully compatible                 |
|  | Compatible with some limitations |
|  | Not compatible                   |

## STORAGE AND CLEANING

### Storage

#### Storage location:

Store the Hardware as well as Wearables in a dry and dirt-free environment. In case of transport, HandScanner system must be transported shockproof in its original packaging.

#### Temperature:

Store the Hardware as well as Wearables in an environment between - 4°F (-20°C) and 140°F (+60°C).

### Cleaning

#### Wearables:



#### CAUTION

Protect Wearables from moisture!

This may otherwise lead to the Wearables not functioning properly.

Datalogic wearables are not machine-washable. These wearables are meant to be replaced periodically due to normal wear and tear. This is because gloves and wraps contain sensitive electronics in and around the scan trigger. With care, it is possible to clean your wearables with minimal risk to their functionality.

We recommend using a spray cleaner with 70% isopropyl alcohol or cleaning products designed for use on fabrics. The scanner clip should be cleaned with only 70% isopropyl alcohol as other chemicals may impact the structure of the clip over time resulting in the scanner coming loose from the clip when in use. Allow wearables to dry completely before continuing use.

Product functionality or appearance may be impacted due to the strength of the chemicals, application methods, contact time, or use of the glove after application. We do not recommend using harsh chemical cleaners and avoid submerging the glove or wrap in liquid or saturating or applying pressure to the area around the trigger.

Because not everyone will follow exactly the same steps with the same cloths and cleaning agents that we tested in our lab, Datalogic disclaims all warranties and does not assume any liability with respect to the recommendations expressed here to keep your barcode scanning system clean.

#### Hardware:



#### CAUTION

Protect Hardware from moisture!

This may otherwise lead to HandScanner system not functioning properly.



#### CAUTION

Do not clean Hardware with chemical agents! Otherwise, the material can be damaged.

- Use isopropyl alcohol or cleaning agents approved for electronics and use it to wipe all surfaces of the hardware with a soft cloth.
- Regularly clean the HandScanner glass with cotton swabs.

## TROUBLESHOOTING

### HandScanner

| Problem  | Cause   | Solution   |
|--|---|--|
| HandScanner is not responding  | Battery is not charged  | Charge HandScanner in the Charging Station for at least 20 minutes   |
|  | Wearable is defective   | Change wearable  |
| HandScanner is not vibrating or does not beep after successful data transfer                 | Feedback signals are disabled   | Check whether the feedback signals in the configuration tool are enabled under "Feedback Profiles"   |
| The battery symbol of HandScanner flashes red  | The battery charge is low   | Charge HandScanner in the Charging Station for at least 20 minutes   |
| The crosshairs light up, but no barcodes are scanned   | The barcode label cannot be read  | Create new barcode label   |
|  | The barcode type cannot be read   | Check whether the barcode type in the configuration tool is enabled under "Symbology settings"   |
|  | The barcode length cannot be read   | Check whether the barcode length in the configuration tool is enabled under "Symbology settings"   |
|  | HandScanner glass is dirty  | Clean the HandScanner glass with a cotton swab   |
| The crosshairs light up, but the barcodes are hard to scan                                   | The barcode label is difficult to read                                    | To enhance the scanning performance, in the configuration tool under "Symbology settings", set Fuzzy 1D processing to ON   |
|  | HandScanner glass is dirty  | Clean the HandScanner glass with a cotton swab   |
|  | Scanning distance is not optimally used                                   | Position HandScanner closer or further away from the barcode label and scan. <ul style="list-style-type: none"> <li>• For standard range: 3.9 - 31.5 in (10 - 80 cm)</li> <li>• For mid range: 11.8 - 59 in (30 - 150 cm)</li> </ul> |
| After pairing with Android device, the on-screen keyboard is not visible anymore             | The virtual keyboard option is not enabled                                | Open <b>Android Settings &gt; System &gt; Languages and Input &gt; Physical Keyboard &gt; Enable "Show virtual keyboard"</b>   |
| After pairing with iOS device, the on-screen keyboard is not visible anymore                 | The virtual keyboard option is not enabled                                | Please refer to the integration guide for iOS platform at <a href="https://www.datalogic.com/handscanner/developer">https://www.datalogic.com/handscanner/developer</a>  |
| HandScanner cannot be paired to the Insight Mobile application. No error messages are shown. | HandScanner may have already been paired to the terminal in BLE HID mode. | Follow the steps under "6th Step: Disconnect HandScanner (BLE HID)" on page 16 to disconnect, then try to pair again using the Insight Mobile application.   |

## BLE - Data Transfer

| Problem   | Cause   | Solution   |
|---|---|--|
| Barcode data is not transferred   | HandScanner is not connected to the end device  | <ol style="list-style-type: none"> <li>1. Scan the pairing barcode</li> <li>2. Lights up blue twice briefly while HandScanner is connecting and after a successful connection</li> </ol>   |
| HandScanner lights up green after the data transfer, but no barcode data is shown on the end device | HandScanner is out of range of the end device <ul style="list-style-type: none"> <li>• Max. range is &lt; 33 ft (10 m)</li> </ul> | Bring HandScanner closer to the end device and scan the pairing barcode  |
| HandScanner flashes red 3 times, 3 negative beeps are heard and long vibration is felt              | HandScanner cannot connect with the end device  | <ol style="list-style-type: none"> <li>1. Check whether the range between HandScanner and end device is &lt; 33 ft (10 m). If not, get closer</li> <li>2. Disconnect the HandScanner from the end device and reconnect (see "6th Step: Disconnect HandScanner" and "4th Step: Connect the HandScanner")</li> <li>3. Scan the pairing barcode again</li> <li>4. Scan barcode again</li> </ol> |

## Gateway

| Problem   | Cause   | Solution  |
|---|---|---|
| The Gateway is not recognized on Windows systems when enabling CDC mode     | The CDC Driver for Windows may be missing       | Install the CDC Driver on Windows PC. To download it, go to <a href="http://www.datalogic.com">www.datalogic.com</a> and from the home page click on the search icon, type in the name of the product, then go to the Software & Utilities section. |
| The Gateway is not recognized on Windows systems when enabling Mass Storage | The Composite Driver for Windows may be missing | From Windows Start Menu, open <b>Device Manager</b> , locate the USB device with warning icon, right-click <b>Update Driver &gt; Automatic Search</b> . The PC must have Internet access.   |

## Gateway - Data Transfer

| Problem                         | Cause   | Solution  |
|---------------------------------|---|---|
| Barcode data is not transferred | HandScanner is not connected to the Gateway   | <ol style="list-style-type: none"> <li>1. Scan the pairing barcode on the Gateway</li> <li>2. Lights up blue twice briefly while HandScanner is connecting and after a successful connection</li> </ol> |
|                                 | HandScanner is out of range of the Gateway <ul style="list-style-type: none"> <li>• Max. range is 100 - 130 ft (20 - 40 m)</li> </ul> | Bring HandScanner closer to the Gateway   |
|                                 | Gateway is defective  | Gateway must be replaced  |
|                                 | HandScanner is defective  | HandScanner must be replaced  |

## Charging Station

| Problem  | Cause   | Solution   |
|--|---|--|
| HandScanner does not charge in Charging Station  | HandScanner is not correctly inserted in the Charging Station   | Insert HandScanner in the Charging Station again       |
|  | Charging Station is not connected to power source   | Connect Charging Station to power source               |
|  | HandScanner is defective  | HandScanner must be replaced                           |
|  | Charging Station is defective   | The Charging Station must be replaced                  |
| LEDs of HandScanner do not light up immediately when HandScanner is placed in the Charging Station | HandScanner charges in the Charging Station, but the feedback signals are delayed by about 30 seconds | Wait until the LEDs of HandScanner signal the charging |



### TIP 1

Problem could not be solved? Insert HandScanner into the wearable. Press the trigger on the wearable for about 15 seconds and restart HandScanner.



### TIP 2

Problem could not be solved? Scan with HandScanner the Factory Default Barcodes:



HandScanner



Gateway

**Factory Default Barcode will reset all configurations!**

## DISPOSAL



For information about the disposal of Waste Electrical and Electronic Equipment (WEEE), please refer to the website at [www.datalogic.com](http://www.datalogic.com).

Carry out the following steps to decommission HandScanner system:

1. Release HandScanner from Wearables
2. Disconnect the connection cable from the Access Point / Gateway
3. Disconnect the mains plug from the Charging Station
4. Properly dispose of Hardware and Wearables as old electronic and electric devices

## DIRECTIVES & CERTIFICATION

### European Declaration of Conformity

Hereby, Datalogic S.r.l. declares that this radio equipment is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at: [www.datalogic.com](http://www.datalogic.com). Select the Support & Service > Downloads > Product Certifications link where you can search for your specific product certification.

#### Česky [Czech]

Tímto Datalogic S.r.l. prohlašuje, že toto rádiové zařízení je ve shodě se směrnicí 2014/53/EU.

#### Dansk [Danish]

Herved erklæres Datalogic S.r.l. erklærer, at dette radioudstyr er i overensstemmelse med direktiv 2014/53/EU.

#### Deutsch [German]

Hiermit wird Datalogic S.r.l. erklärt, dass dieses Funkgerät der Richtlinie 2014/53/EU entspricht.

#### Eesti [Estonian]

Käesolevaga on Datalogic S.r.l. kinnitab, et see raadioseade on kooskõlas direktiiviga 2014/53/EL.

#### Español [Spanish]

Por la presente, Datalogic S.r.l. declara que este equipo de radio cumple con la Directiva 2014/53/UE.

#### Ελληνική [Greek]

Με το παρόν, Datalogic S.r.l. δηλώνει ότι αυτός ο ραδιοεξοπλισμός συμμορφώνεται με την Οδηγία 2014/53/ΕΕ.

#### Français [French]

Par la présente, Datalogic S.r.l. déclare que cet équipement radio est conforme à la directive 2014/53/UE.

#### Italiano [Italian]

Con la presente Datalogic S.r.l. dichiara che questa apparecchiatura radio è conforme alla Direttiva 2014/53/UE.

#### Latviski [Latvian]

Ar šo Datalogic S.r.l. paziņo, ka šī radioiekārta atbilst Direktīvai 2014/53 / ES.

#### Lietuvių [Lithuanian]

Šiuo dokumentu „Datalogic S.r.l.“ pareiškia, kad ši radijo įranga atitinka Direktyvą 2014/53/ES.

#### Nederlands [Dutch]

Hierbij verklaart Datalogic S.r.l. dat deze radioapparatuur voldoet aan Richtlijn 2014/53/EU.

#### Malti [Maltese]

Hawnhekk, Datalogic S.r.l. tiddikjara li dan it-tagħmir tar-radju huwa konformi mad-Direttiva 2014/53/UE.

#### Magyar [Hungarian]

A Datalogic S.r.l. kijelenti, hogy ez a rádióberendezés megfelel a 2014/53/EU irányelvnek.

#### Polski [Polish]

Niniejszym Datalogic S.r.l. oświadcza, że to urządzenie radiowe jest zgodne z Dyrektywą 2014/53/UE.

#### Português [Portuguese]

Por meio deste, a Datalogic S.r.l. declara que este equipamento de rádio está em conformidade com a Diretiva 2014/53/UE.

#### Slovensko [Slovenian]

Datalogic S.r.l. izjavlja, da je ta radijska oprema v skladu z Direktivo 2014/53/EU.

#### Slovensky [Slovak]

Týmto spoločnosť Datalogic S.r.l. vyhlasuje, že toto rádiové zariadenie je v súlade so smernicou 2014/53 / EÚ.

#### Suomi [Finnish]

Datalogic S.r.l. vakuuttaa täten, että tämä radiolaitte on direktiivin 2014/53 / EU mukainen.

#### Svenska [Swedish]

Datalogic S.r.l. förklarar härmed att denna radioutrustning överensstämmer med direktiv 2014/53 / EU.

### UKCA Declaration of Conformity

Hereby, Datalogic S.r.l. declares that the full text of the UKCA Declaration of Conformity is available at: [www.datalogic.com](http://www.datalogic.com). Select the Support & Service >Downloads > Product Certifications link where you can search for your specific product certification.

### FCC/IC Certification Compliance

The Datalogic HandScanner System comprised of: HandScanner MR, HandScanner SR, Datalogic Charging Station, Datalogic Gateway, wearables, peripherals and accessories, complies with the following FCC/IC product categories:

- FCC Part 15 Subpart C 247 (intentional radiators = RF transceiver)
- FCC Part 15 Subpart C 249 (intentional radiators = RF transceiver)
- FCC Part 15 Subpart B 107/109 (unintentional radiator)
- ISED Canada RSS-Gen Category I (radio apparatus)
- ISED Canada RSS-247
- ISED Canada RSS-102
- ISED Canada RSS-210

The Datalogic HandScanner is a portable device (distance between person's body and the antenna is 20 cm or less) and excluded from SAR (Specific Absorption Rate) requirements.

Under the regulations of the FCC and the IC the user has to be aware of the following when using the Datalogic HandScanner:

1. This equipment complies with FCC/IC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines and RSS-102 of the IC radio frequency (RF) Exposure rules. This equipment has very low levels of RF energy that are deemed to comply without testing of specific absorption rate (SAR).

*Cet équipement est conforme aux limites d'exposition aux rayonnements énoncées pour un environnement non contrôlé et respecte les règles d'exposition aux fréquences radioélectriques (RF) des lignes directrices de la FCC et les règles d'exposition aux fréquences radioélectriques (RF) CNR-102 de l'IC. Cet équipement émet une énergie RF très faible qui est considérée comme conforme sans évaluation du débit d'absorption spécifique (DAS).*

2. This HandScanner system has been tested and meets the FCC/IC RF exposure rules when used with Datalogic accessories supplied or designated for this product. Use of other accessories may not ensure compliance with FCC/IC RF exposure rules.

*Le système Datalogic a été testé et est conforme aux règles d'exposition aux fréquences radioélectriques (RF) de l'IC ainsi que de la FCC lorsqu'il est utilisé avec les accessoires Datalogic fournis ou conçus pour ce produit. L'usage d'autres accessoires ne garantit pas nécessairement la conformité aux règles d'exposition aux RF de l'IC ou de la FCC.*

### FCC Specific Certification Compliance

Under the regulations of the FCC the user has to be aware of the following when using the Datalogic HandScanner:

#### 1. FCC CAUTION

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

2. This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

3. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

4. Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference 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.

#### IC Specific Certification Compliance

Under the regulations of the IC the user has to be aware of the following when using the Datalogic HandScanner:

1. This device complies with Industry Canada's licence-exempt RSSs. 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.

*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;*
- 2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.*

#### LASER CLASS 2 (mid range):

Complies with 21CFR1040.10 and 1040.11 except for deviations pursuant to Laser Notice No. 56, dated June 24, 2007. Laser safety according to EN60825-1:2014 and IEC 60825-1 (Ed. 3.0).

The laser warning label is located on the bottom of HandScanner (mid range)



Label example

# APPENDIX - CONFIGURATION BARCODES

Pairing Barcode



Gateway Mass Storage ON



Gateway Mass Storage OFF



Scanner Factory Reset



Gateway Factory Reset

