



# SD9030 Dongle

## for Datalogic Star Cordless Systems



**Quick Reference Guide**

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### **Patents**

See [www.patents.datalogic.com](http://www.patents.datalogic.com) for patent list.

**See the Regulatory Addendum included with your product for additional regulatory, safety and legal information.**



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MENT WITHIN 12 (TWELVE) MONTHS AFTER THE CAUSE OF ACTION ARISES.

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To the maximum extent permitted by law, End User agrees to defend, indemnify and hold harmless Datalogic, its affiliates and their respective directors, officers, employees and agents from and against any and all claims, actions, suits or proceedings, as well as any and all losses, liabilities, damages, costs and expenses (including reasonable attorney's fees) arising out of or accruing from or related to Licensee's failure to comply with the terms of this Agreement, including but not limited to (1) non compliance with any applicable laws or regulations with Datalogic product documentation, (2) unauthorized use or disclosure of Software, and (3) use of Software in combination with software, hardware, systems, or other items not provided by Datalogic.

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End User may request support for Software from Datalogic at Datalogic's standard support fees and under Datalogic's standard support terms and conditions in effect at the time the support is requested.

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## 11. General Provisions.

11.1. Entire Agreement; Amendment. This document contains the entire agreement between the parties relating to use of the Datalogic Products and the licensing of the Software and supersedes all prior or contemporaneous agreements, written or oral, between the parties concerning the use of the Datalogic Products and licensing of the Software. This Agreement may not be changed,

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11.2. Waiver. A party's failure to enforce any of the terms and conditions of this Agreement shall not prevent the party's later enforcement of such terms and conditions.

11.3. Governing Law; Venue: End User agrees to the application of the laws of the country in which End User obtained the license to govern, interpret, and enforce all of End User's and Datalogic's respective rights, duties, and obligations arising from, or relating in any manner to, the subject matter of this Agreement, without regard to conflict of law principles. The United Nations Convention on Contracts for the International Sale of Goods does not apply.

All rights, duties, and obligations are subject to the courts of the country in which End User obtained the license. For licenses granted by Licensee who operates in the countries specified below, the following terms applies.

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This Agreement is governed by the laws of the State of Oregon. This Agreement and the rights of the parties hereunder shall be governed by and construed in accordance with the laws of the State of Oregon U.S.A, without regard to the rules governing conflicts of law. The state or federal courts of the State of Oregon located in either Multnomah or Lane counties shall have exclusive jurisdiction over all matters regarding this Agreement, except that Datalogic shall have the right, at its absolute discretion, to initiate proceedings in the courts of any other state, country, or territory in which End User resides, or in which any of End User's assets are located. In the event an action is brought to enforce the terms and conditions of this Agreement, the prevailing party shall be entitled to reasonable attorneys' fees, both at trial and on appeal.

For Europe, Middle East and Africa:

This Agreement is governed by the laws of Italy. This Agreement and the rights of the parties hereunder shall be governed by and construed in accordance with the laws of Italy, without regard to the rules governing conflicts of law. Italian Court of Bologna shall have exclusive jurisdiction over all matters regarding this Agreement, except that Datalogic shall have the right, at its absolute discretion, to initiate proceedings in the courts of any other state, country, or territory in which End User resides, or in which any of End User's assets are located. In the event an action is brought to enforce the terms and conditions of this Agreement, the prevailing party shall be entitled to reasonable attorneys' fees, both at trial and on appeal.

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The validity, interpretation and construction of the Agreement shall be governed by and construed in accordance with Laws of the Republic of Singapore. Parties expressly disclaim the application of the United Nations Convention for International Sale of Goods.

Any dispute arising out of or in connection with this contract, including any question regarding its existence, validity or termination, shall be referred to and finally resolved by arbitration administered by the Singapore International Arbitration Centre ('SIAC") in accordance with the Arbitration Rules of the Singapore International Arbitration Centre ("SIAC Rules") for the time being in force, which rules are deemed to be incorporated by reference in this clause. The seat of the arbitration shall be Singapore.

The number of arbitrators will be three, with each side to the dispute being entitled to appoint one arbitrator. The two arbitrators appointed by the parties will appoint a third arbitrator who will act as chairman of the proceedings. Vacancies in the post of chairman will be filled by the president of the SIAC. Other vacancies will be filled by the respective nominating party. Proceedings will continue from the stage they were at when the vacancy occurred. If one of the parties refuses or otherwise fails to appoint an arbitrator within 30 days of the date the other party appoints its, the first appointed arbitrator will be the sole arbitra-



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tor, provided that the arbitrator was validly and properly appointed. All proceedings will be conducted, including all documents presented in such proceedings, in the English language. The English language version of these terms and conditions prevails over any other language version.

11.4. Attorneys' Fees. In the event an action is brought to enforce the terms and conditions of this Agreement, the prevailing party shall be entitled to reasonable attorneys' fees, both at trial and on appeal.

**- END -**

## **Software Product Policy**

Datalogic reserves the right to ship its products with the latest version of software/firmware available. This provides our customers with the very latest in Datalogic software technology.

The only exception to this policy is when the buyer has a signed contract with Datalogic that clearly defines the terms and conditions for making software/firmware changes in products shipped to the buyer.

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# NOTES



## Using the SD9030 Dongle

The SD9030 Dongle, when paired with one or more Power-Scan™ PM9X00 readers, builds a Cordless Reading System for the collection, decoding and transmission of bar code data. It can be connected to a Host PC via USB and is suited for single-cradle layouts.

When the button is pressed, the SD9030 Dongle will transmit a "broadcast" message. When the broadcast is sent, and the Radio RX Timeout is set to keep the radio awake, all properly configured scanners that are linked to that base and within radio range coverage will emit a beep and blink for 5 seconds. This functionality is useful to:

- verify which scanner is linked to a certain base station
- detect a scanner forgotten somewhere

The backlight of the button shows the status of the SD9030 Dongle as described by the table below.

EVENT	LED
Power ON	Yellow steady on
Label Programming / Service Mode	Yellow rapidly blinking
Data or label transmitted to the host	Yellow blinks one time
Broadcast	Green rapidly blinking
Disabled by host	Yellow Blinking once per second
Firmware upgrade	Green Blinking

# Installation

To set up your SD9030 Dongle you must:

1. Physically install the SD9030 Dongle.
2. Make all system connections.
3. Configure the SD9030 Dongle.

## Mounting the SD9030 Dongle

The package contains the following items:

- SD9030 Dongle
- 2 Adhesive linking labels
- 1 Forklift mount
- SD9030 Quick Reference Guide

The forklift mount is designed to ease the installation of the dongle on a lateral guard or on the overhead guard of a forklift.

The forklift mount can be easily fastened to the dongle by following few steps:

1. Unscrew the highlighted nut at the bottom and free it completely from the cable of the dongle. Place the nut in a safe place.



2. Pass the cable of the dongle through the biggest hole of the mount and hold the dongle as shown in figure. Remember that the best radio range is achieved by placing the antenna as far as possible from metal parts.



Best radio range



Space Saving Position

3. Take the nut removed at step 1, pass the cable through it and screw it tight to the dongle again.



## Mounting the SD9030 Dongle on a forklift

By using the steel mount and a couple of plastic zip ties, the SD9030 Dongle can be easily mounted on a guard of the forklift as shown in the picture below.



## Connecting to a Host

The SD9030 Dongle can be connected to a Host with its USB cable. In the picture below it is connected to a Datalogic Vehicle Mount Computer, but it can be connected to any PC or Industrial PC with a USB port. Simply connect the SD9030 Dongle to a free USB port of the Host.



## Connecting a Datalogic PowerScan™ PM9X00 to the SD9030 Dongle

Simply take your Datalogic PowerScan™ PM9X00 scanner and scan the link label on the backside of the SD9030 Dongle or scan one of the adhesive labels provided in the package.



By factory defaults, the SD9030 Dongle is preset to use the STAR 2.0 High Speed protocol. To enable the communication between a Datalogic PowerScan STAR 2.0 Scanner and a SD9030 Dongle, please be sure about which protocol is currently in use on both devices. Use the barcode below in case you need to restore the scanner with the same default protocol used by the SD9030 Dongle.



Restore Default Radio Protocol

## SD9030 Dongle Configuration

The SD9030 configuration can be performed in three ways: by using the Datalogic Aladdin™ software configuration program, by sending configuration strings from the Host PC via USB-COM interface or by reading configuration bar codes with the PowerScan™ PM9X00 reader.

### Datalogic Aladdin™

Datalogic Aladdin™ is a multi-platform utility program that provides a quick and user-friendly configuration method via the USB-COM interface. It also allows upgrading the software of the connected device (see the Datalogic Aladdin™ Help On-Line for more details).

### Serial Configuration

By connecting the SD9030 Dongle to a PC through a USB-COM interface, it is possible to send configuration strings from the PC to the dongle.

### Configuration Bar Codes

Link the SD9030 Dongle and the reader by scanning the linking label attached to the dongle. Once the pairing is complete, you can configure the SD9030 Dongle by reading configuration bar codes in this manual.

To configure the SD9030 Dongle using the PowerScan™ PM9X00 reader (paired to the dongle), follow the procedure according to the interface selected.

### Resetting Standard Product Defaults

Reference the PRG for a listing of standard factory settings. If you aren't sure what programming options are in your reader, or you've changed some options and want the factory settings restored, scan the **Standard Product Default Settings** bar code below to copy the factory configuration for the currently active interface to the current configuration.



**Factory defaults are based on the interface type. Configure the reader for the correct interface before scanning this label.**



Standard Product Default Settings



**CAUTION**

Scanning this bar code will **RESET** all settings for the PowerScan™ PM9X00. Any customized settings that may have been applied to the reader will be lost.

To change the defaults refer to the PowerScan™ 9X00 PRG, or to the Datalogic Aladdin™ Configuration program, both downloadable from the Datalogic website.

## Selecting the Interface Type

Upon completing the physical connection between the reader and its host, scan the appropriate bar code for your system's correct interface type.

## Configuring the Interface

Scan the programming bar code which selects the appropriate interface type for the system the reader will be connected to.



Unlike some other programming features and options, interface selections require that you scan only one programming bar code label. **DO NOT** scan an ENTER/EXIT bar code prior to scanning an interface selection bar code.

Some interfaces require the scanner to start in the disabled state when powered up. If additional scanner configuration is desired while in this state, pull the trigger and hold for 5 seconds. The scanner will change to a state that allows programming with bar codes.



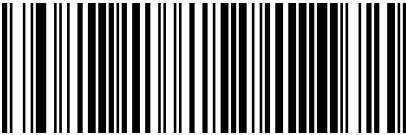
## USB

USB COM to simulate RS232 standard interface

USB-COM-STD<sup>a</sup>

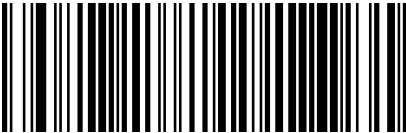
USB-OEM

(can be used for OPOS/UPOS/JavaPOS)



USB-OEM

USB Keyboard with standard key encoding



Select USB Keyboard

USB Keyboard with alternate key encoding



USB Alternate Keyboard

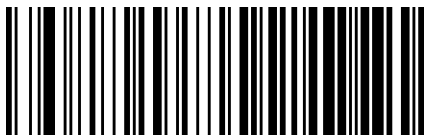
a. Download the correct USB COM driver from [www.datalogic.com](http://www.datalogic.com)

## Country Mode

This feature specifies the country/language supported by the keyboard.

<div>COUNTRY MODE</div> <div></div> <div>ENTER/EXIT PROGRAMMING MODE</div>
<div></div> <div>Country Mode = U.S.</div>
<div></div> <div>Country Mode = Belgium</div>
<div></div> <div>Country Mode = Britain</div>
<div></div> <div>Country Mode = Croatia</div>
<div></div> <div>Country Mode = Czech Republic</div>

## COUNTRY MODE (continued)



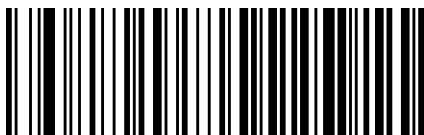
Country Mode = Denmark



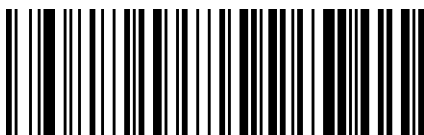
Country Mode = France



Country Mode = French Canadian



Country Mode = Germany



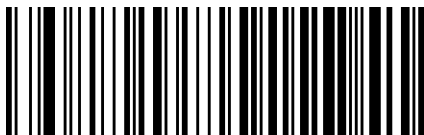
Country Mode = Hungary



Country Mode = Italy

COUNTRY MODE (continued)
<div><p>Country Mode = Japanese 106-key</p></div>
<div><p>Country Mode = Lithuanian</p></div>
<div><p>Country Mode = Norway</p></div>
<div><p>Country Mode = Poland</p></div>
<div><p>Country Mode = Portugal</p></div>

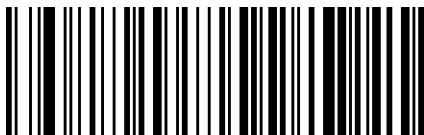
## COUNTRY MODE (continued)



Country Mode = Romania



Country Mode = Spain



Country Mode = Sweden



Country Mode = Slovakia



Country Mode = Switzerland

# Technical Features

Electrical Features		
Supply Voltage	Host Power	5 VDC ±10%
Power Consumption	Host Power	max. 210 mA
Indicators	Host Power/Data yellow LED (see table at page 1)	
Environmental Features		
Working Temperature	- 20° to + 60 °C / - 4 to + 140 °F	
Storage Temperature	- 40° to + 70 °C / - 40 to + 158 °F	
Humidity	90% non condensing	
Protection Class	IP65	
Mechanical Features		
Weight without metal plate	about 145 g / 5.11 oz	
Dimensions (without cable)	167 x 43 x 27.5 mm	
Regulatory	See Regulatory Addendum	
Radio Features		
Frequency working center	433MHz	910MHz
Programmable Speed	19.2 kb/s 115.2 kb/s 500 kb/s (default)	36.8 kb/s  500 kb/s (default)
Typical Range (in open air)	see reader's manual	
Max number of devices per dongle	16	

# Datalogic Limited Factory Warranty

## Warranty Coverage

Datalogic warrants this product against defects in workmanship and materials, for a period of 3 years from the date of shipment, provided that the product is operated under normal and proper conditions. Datalogic hardware products are warranted against defects in material and workmanship under normal and proper use. The liability of Datalogic under this warranty is limited to furnishing the labor and parts necessary to remedy any defect covered by this warranty and restore the product to its normal operating condition. Repair or replacement of product during the warranty does not extend the original warranty term. Products are sold on the basis of specifications applicable at the time of manufacture and Datalogic has no obligation to modify or update products once sold.

If Datalogic determines that a product has defects in material or workmanship, Datalogic shall, at its sole option repair or replace the product without additional charge for parts and labor, or credit or refund the defective products duly returned to Datalogic. To perform repairs, Datalogic may use new or reconditioned parts, components, subassemblies or products that have been tested as meeting applicable specifications for equivalent new material and products. Customer will allow Datalogic to scrap all parts removed from the repaired product. The warranty period shall extend from the date of shipment from Datalogic for the duration published by Datalogic for the product at the time of purchase (Warranty period). Datalogic warrants repaired hardware devices against defects in workmanship and materials on the repaired assembly for a 90 day period starting from the date of shipment of the repaired product from Datalogic or until the expiration of the original warranty period, whichever is longer. Datalogic does not guarantee, and it is not responsible for, the maintenance of, damage to, or loss of configurations, data, and applications on the repaired units and at its sole discretion can return the units in the "factory default" configuration or with any software or firmware update available at the time of the repair (other than the firmware or software installed during the manufacture of the product). Customer accepts responsibility to maintain a back up copy of its software and data.

## Warranty Claims Process

In order to obtain service under the Factory Warranty, Customer must notify Datalogic of the claimed defect before the expiration of the applicable Warranty period and obtain from Datalogic a return authorization number (RMA) for return of the product to a designated Datalogic service center. If Datalogic determines Customer's claim is valid, Datalogic will repair or replace product without additional charge for parts and labor. Customer shall be responsible for packaging and shipping the product to the designated Datalogic service center, with shipping charges prepaid. Datalogic shall pay for the return of the product to Customer if the shipment is to a location within the country in which the Datalogic service center is located. Customer shall be responsible for paying all shipping charges, duties, taxes, and any other charges for products returned to any other locations. Failure to follow the applicable RMA policy, may result in a processing fee. Customer shall be responsible for return shipment expenses for products which Datalogic, at its sole discretion, determines are not defective or eligible for warranty repair.

## Warranty Exclusions

The Datalogic Factory Warranty shall not apply to:

- (i) any product which has been damaged, modified, altered, repaired or upgraded by other than Datalogic service personnel or its authorized representatives;
- (ii) any claimed defect, failure or damage which Datalogic determines was caused by faulty operations, improper use, abuse, misuse, wear and tear, negligence, improper storage or use of parts or accessories not approved or supplied by Datalogic;
- (iii) any claimed defect or damage caused by the use of product with any other instrument, equipment or apparatus;
- (iv) any claimed defect or damage caused by the failure to provide proper maintenance, including but not limited to cleaning the upper window in accordance with product manual;
- (v) any defect or damage caused by natural or man-made disaster such as but not limited to fire, water damage, floods, other natural disasters, vandalism or abusive events that would cause internal and external component damage or destruction of the whole unit, consumable items;
- (vi) any damage or malfunctioning caused by non-restoring action as for example firmware or software upgrades, software or hardware reconfigurations etc.;
- (vii) the replacement of upper window/cartridge due to scratching, stains or other degradation and/or
- (viii) any consumable or equivalent (e.g., cables, power supply, batteries, keypads, touch screen, triggers etc.).

## No Assignment

Customer may not assign or otherwise transfer its rights or obligations under this warranty except to a purchaser or transferee of product. No attempted assignment or transfer in violation of this provision shall be valid or binding upon Datalogic.

DATALOGIC'S LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, ORAL OR WRITTEN, STATUTORY OR OTHERWISE, INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR NONINFRINGEMENT. DATALOGIC SHALL NOT BE LIABLE FOR ANY DAMAGES SUSTAINED BY CUSTOMER ARISING FROM DELAYS IN THE REPLACEMENT OR REPAIR OF PRODUCTS UNDER THE ABOVE. THE REMEDY SET FORTH IN THIS WARRANTY STATEMENT IS THE CUSTOMER'S SOLE AND EXCLUSIVE REMEDY FOR WARRANTY CLAIMS. UNDER NO CIRCUMSTANCES WILL DATALOGIC BE LIABLE TO CUSTOMER OR ANY THIRD PARTY FOR ANY LOST PROFITS, OR ANY INCIDENTAL, CONSEQUENTIAL IN-DIRECT, SPECIAL OR CONTINGENT DAMAGES REGARDLESS OF WHETHER DATALOGIC HAD ADVANCE NOTICE OF THE POSSIBILITY OF SUCH DAMAGES.

## Risk of Loss

Customer shall bear risk of loss or damage for product in transit to Datalogic. Datalogic shall assume risk of loss or damage for product in Datalogic's possession. In the absence of specific written instructions for the return of product to Customer, Datalogic will select the carrier, but Datalogic shall not thereby assume any liability in connection with the return shipment.



# Ergonomic Recommendations



## CAUTION

In order to avoid or minimize the potential risk of ergonomic injury follow the recommendations below. Consult with your local Health & Safety Manager to ensure that you are adhering to your company's safety programs to prevent employee injury.

- Reduce or eliminate repetitive motion
- Maintain a natural position
- Reduce or eliminate excessive force
- Keep objects that are used frequently within easy reach
- Perform tasks at correct heights
- Reduce or eliminate vibration
- Reduce or eliminate direct pressure
- Provide adjustable workstations
- Provide adequate clearance
- Provide a suitable working environment
- Improve work procedures

## Support Through the Website

Datalogic provides several services as well as technical support through its website. Log on to [www.datalogic.com](http://www.datalogic.com) and click on the **SUPPORT** link which gives you access to:

**Downloads** by selecting your product model from the drop-down list in the Search by Product field for specific Data Sheets, Manuals, Software & Utilities, and Drawings;

**Repair Program** for On-Line Return Material Authorizations (RMAs) plus Repair Center contact information;

**Customer Service** containing details about Maintenance Agreements;

**Technical Support** through email or phone.

# NOTES





[www.datalogic.com](http://www.datalogic.com)

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(Rev B)

June 2018