# **ODATALOGIC**

# Gryphon™ I GM4102

General Purpose Handheld Linear Imager Barcode Reader with Datalogic's STAR Cordless System™



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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 arbitrator, 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.

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- 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.

# **Customers Under Software Support**

To arrange for a Software Maintenance and Support Agreement please contact your Datalogic sales person.

# **NOTES**

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# **Gryphon™ I GM4102** Quick Reference Guide

# **Setting Up the Reader**

Follow the steps below to connect and get your reader up and communicating with its host.

- 1. Configure the Base Station starting on this page.
- 2. Charge the Batteries (see page 8).
- 3. Link to the Base Station (see page 13).
- 4. Select the Interface Type (see page 15).
- 5. Configure other settings if desired starting on page 28 (optional, depends on settings needed).

# **Configure the Base Station**

The base charger/station may be configured in desk application to hold the reader in two different positions, either a horizontal or standing position, in order to provide the most comfortable use depending on needs.



# **Changing the Base Station Position**

The base station is configured by installing one of two sets of mechanical parts that come with the cordless kit. The default mounts (shown below) provide three options: vertical (wall) mounting, standing (45°), or horizontal mounting with a higher mechanical retention of the scanner. Use the other mounts only for horizontal mounting, with lower retention of the scanner. The different parts may be interchanged to customize retention preferences.



A tool such as a rigid pen or a flat screwdriver can be used to change the mounts. Do not allow it to touch the contacts.

1. Insert the appropriate parts for the desired base station position, as shown below.



Using your thumbs, push open the plastic tabs on the bottom of the base to free the wing holders.





To ensure best contact and performance, do not intermix the parts of the two different mount sets.

The stand can now be repositioned in either horizontal or standing position.



# **Connecting the Base Station**

Figure 1 shows how to connect the Base Station to a terminal, PC or other host device. Turn off the host before connection and consult the manual for that equipment (if necessary) before proceeding. Connect the interface cable before applying power to the Base Station.

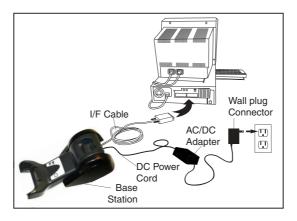


The Gryphon GM4102 can also be Powered by the Terminal. When powered by the Terminal, the battery charger is automatically set as Slow charge.

For some specific interfaces or hosts or lengths of cable, the use of an external power supply may be recommended for full recharging capability (see Technical Specifications on page 29 for more details).

Base Station Connection and Routing — Fully insert the Power Cable and Interface (I/F) Cable connectors into their respective ports in the underside of the Base Station (see Figure 1). Then connect to an AC Adapter, and plug the AC power cord into the (wall) outlet.

Figure 1. Connecting the Base Station



# Securing the DC Power Cord (Optional)

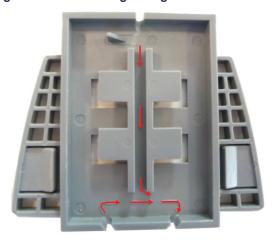
The DC power cord for the adapter can be secured to the bottom of the base in order to maximize the mechanical retention of the cable itself. The routing of the power cord can be changed to accommodate the base station positioning: horizontal, stand or wall mounting. The cables can be looped around to the front of the Base Station, or fed directly out the back of the Base Station, as shown in Figure 2 on page 5.

Figure 2. Options for routing the DC cord



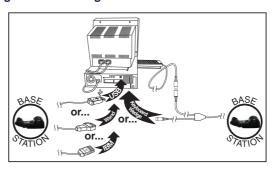
Please refer to the arrows depicted on the bottom of the base when placing the cables, detailed in Figure 3.

Figure 3. Arrows showing routing



Host Connection — Verify before connection that the reader's cable type is compatible with your host equipment. Most connections plug directly into the host device as shown in Figure 4 on page 6. Keyboard Wedge interface cables have a 'Y' connection where its female end mates with the male end of the cable from the keyboard and the remaining end at the keyboard port on the terminal/PC.

Figure 4. Connecting to the Host



**Power Connection** — Plug the AC Adapter in to an approved AC wall socket with the cable facing downwards (as shown in Figure 1) to prevent undue strain on the socket. **Disconnecting the Cable** — To detach the cable, insert a paper clip or similar object into the hole on the base, as shown in Figure 5.

Figure 5. Disconnecting the Cable



# Using the BC40xx™ Radio Base

# **Base LEDs**

LEDs on the Gryphon I Base provide information about the Base's status, as shown in Figure 6.

Figure 6. Gryphon I Base LEDs



The following table describes the significance of each LED:

	LED	STATUS
4	Power on / Data	Yellow On = Base is powered Yellow Blinking = Base receives data and commands from the Host or the Reader.
	Charging	Red On = the Battery is in progress.
-	Charge com- pleted	Green On = the Battery is completely charged.
-	Charging + Charge com- pleted	Red and Green Blinking together = the Reader is not correctly placed onto the Base.

A button is available to force device connection via the Datalogic Aladdin Software tool, and for paging the scanner when bidirectional connection is activated. Refer to the Gryphon I Product Reference Guide (PRG) for a more detailed explanation.

# **Charging the Batteries**

To charge the battery, simply insert the Gryphon into the base. When the scanner is fully seated in the cradle, it will sound a 'chirp" to indicate that the cradle has detected the scanner connection.



Before using the Battery, read "Battery Safety" in the following section. Datalogic recommends annual replacement of rechargeable battery packs to ensure maximum performance.

# **Battery Safety**

To install, charge and/or do any other action on the battery, follow the instructions in this manual.



Do not discharge the battery using any device except for the scanner. When the battery is used in devices other than the designated product, it may damage the battery or reduce its life expectancy. If the device causes an abnormal current to flow, it may cause the battery to become hot, explode or ignite and cause serious injury.

Lithium-ion battery packs may get hot, explode or ignite and cause serious injury if exposed to abusive conditions. Be sure to follow the safety warnings listed on the following page.



- Do not place the battery pack in fire or heat.
- Do not connect the positive terminal and negative terminal of the battery pack to each other with any metal object (such as wire).
- Do not carry or store the battery pack together with metal objects.
- Do not pierce the battery pack with nails, strike it with a hammer, step on it or otherwise subject it to strong impacts or shocks.
- Do not solder directly onto the battery pack.
- Do not expose the battery pack to liquids, or allow the battery to get wet.
- Do not apply voltages to the battery pack contacts.



In the event the battery pack leaks and the fluid gets into your eye, do not rub the eye. Rinse well with water and immediately seek medical care. If left untreated, the battery fluid could cause damage to the eye.



Always charge the battery at 32° – 104°F (0° - 40°C) temperature range.

Use only the authorized power supplies, battery pack, chargers, and docks supplied by your Datalogic reseller. The use of any other power supplies can damage the device and void your warranty.

Do not disassemble or modify the battery. The battery contains safety and protection devices, which, if damaged, may cause the battery to generate heat, explode or ignite.



Do not place the battery in or near fire, on stoves or other high temperature locations.

Do not place the battery in direct sunlight, or use or store the battery inside cars in hot weather. Doing so may cause the battery to generate heat, explode or ignite. Using the battery in this manner may also result in a loss of performance and a shortened life expectancy.



Do not place the battery in microwave ovens, high-pressure containers or on induction cookware.

Immediately discontinue use of the battery if, while using, charging or storing the battery, the battery emits an unusual smell, feels hot, changes color or shape, or appears abnormal in any other way.

Do not replace the battery pack when the device is turned on.

Do not remove or damage the battery pack's label.

Do not use the battery pack if it is damaged in any part.

Battery pack usage by children should be supervised.

As with other types of batteries, Lithium-Ion (LI) batteries will lose capacity over time. Capacity deterioration is noticeable after one year of service whether the battery is in use or not. It is difficult to precisely predict the finite life of a LI battery, but cell manufacturers rate them at 500 charge cycles. In other words, the batteries should be expected to take 500 full discharge / charge cycles before needing replacement. This number is higher if partial discharging / recharging is adhered to rather than full / deep discharging.



Storage of batteries for long time at fully charged status or at fully discharged status should be avoided.



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Only in case of long storage, to avoid deep discharge of the battery it is recommended to partially recharge the battery every three months to keep the charge status at a medium level.

As a reference, run a fast recharge for 20 minutes every three months on unused products to avoid any performance deterioration of the cell.

The useful life of LI batteries depends on usage and number of charges, etc., after which they should be removed from service, especially in mission critical applications. Do not continue to use a battery showing excessive loss of capacity, it should be properly recycled / disposed of and replaced.

Collect and recycle waste batteries separately from the device in comply with European Directive 2006/66/EC, 2011/65/EU, 2002/96/EC and 2012/19/EU, and subsequent modifications, US and China regulatory and others laws and regulations about the environment.

# **Replacing the Batteries**



Before proceeding, read "Battery Safety" on the preceding pages. Datalogic recommends annual replacement of rechargeable battery packs to ensure maximum performance.

Use the following procedure to change the reader's battery:

With a screwdriver, unscrew the battery cover
screw



2. Unplug the three screws securing the battery holder, and unplug the white connector.



 Carefully lift out the gold contacts circuit, and remove the battery holder while letting the white connector pass through the hole in the battery holder (as shown below).



- Remove the old battery from its place (if present), and insert the new battery in the same position.
- 5. Replace the battery holder, plug in the connector and return the contacts circuit to its previous



When inserting the new battery into the handle, take care to position the battery and the connector as shown.

6. Insert the cover in the handle and screw it back into place.



# Linking the Reader to a Base Station

# **RF Devices**

For RF devices, before configuring the interface it is necessary to link the handheld with the base.

To link the handheld and the base, press the trigger to wake it and place it on the base. If the reader was previously linked to another base, you must first scan the Unlink action command before re-linking to the new base.



# **System and Network Layouts**

# **Stand Alone Layouts**

Figure 7. Single Reader Layout

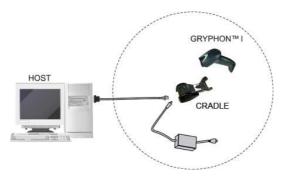
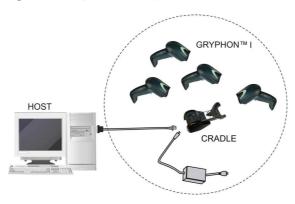
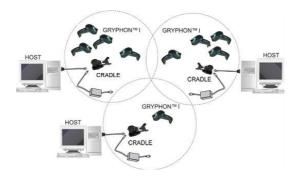


Figure 8. Multiple Reader Layout



In stand alone systems, each cradle is connected to a single Host.

Figure 9. Multiple Stand Alone Layouts



Many stand alone connections can operate in the same physical area without interference, provided all readers and cradles in the system have different addresses.

# Select the Interface Type

Upon completing the physical connection between the reader and its host, proceed directly to Interface Selection on page 15 for information and programming for the interface type the reader is connected to (for example: RS-232, Keyboard Wedge, USB, etc.) and scan the appropriate barcode to select your system's correct interface type.

# Interface Selection

Each reader model will support one of the following sets of host interfaces:

**General Purpose Models** — RS-232, RS-232 OPOS, USB, Keyboard Wedge

**Retail Point of Sale Models** — RS-232, RS-232 OPOS, USB, IBM 46XX (with accessory cable)

# **Configuring the Interface**

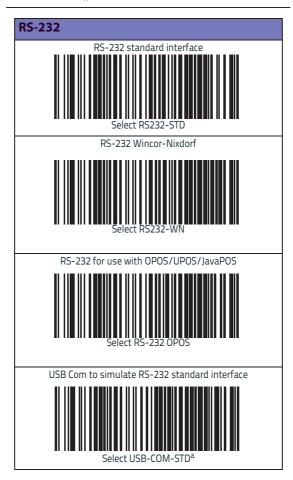
Scan the programming barcode which selects the appropriate interface type matching the system the reader will be connected to.

Next, proceed to the corresponding chapter in the Gryphon™ I GD4132/GM4102 PRG to customize any settings and features associated with that interface.



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

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 barcodes.





a. Download the correct USB Com driver from www.datalogic.com

# **KEYBOARD**

AT, PS/2 25-286, 30-286, 50, 50Z, 60, 70, 80, 90 & 95 w/ Standard Key Encoding



Select KBD-AT

Keyboard Wedge for IBM AT PS2 with standard key encoding but without external keyboard



Select KBD-AT-NK

AT, PS/2 25-286, 30-286, 50, 50Z, 60, 70, 80, 90 & 95 w/Alternate Key



Select KBD-AT-ALT

Keyboard Wedge for IBM AT PS2 with alternate key encoding but without external keyboard



Select KBD-AT-ALT-NK

# **KEYBOARD** (continued)

PC/XT w/Standard Key Encoding



Keyboard Wedge for IBM Terminal 3153



Select KBD-IBM-3153

Keyboard Wedge for IBM Terminals 31xx, 32xx, 34xx, 37xx make only keyboard



Select KRD-IRM-M

Keyboard Wedge for IBM Terminals 31xx, 32xx, 34xx, 37xx make break keyboard



Select KBD-IBM-MB

# **KEYBOARD** (continued)

Keyboard Wedge for DIGITAL Terminals VT2xx, VT3xx, VT4xx



Select KBD-DIG-VT

USB Keyboard with standard key encoding



Select USB Keyboard

USB Keyboard with alternate key encoding



Select USB Alternate Keyboard

USB Keyboard for Apple computers



Select USB-KBD-APPLE

# **WAND EMULATION**

Wand Emulation



Select WAND

# **Keyboard Interface**

Use the programming barcodes to select options for USB Keyboard and Wedge Interfaces.

# **Standard Factory Settings**

Reference the Gryphon™ I GD4132/GM4102 Product Reference Guide (PRG) for a listing of standard factory settings.

# **Scancode Tables**

Reference the Gryphon™ I GD4132/GM4102 PRG for information about control character emulation which applies to keyboard interfaces.

# **Country Mode**

This feature specifies the country/language supported by the keyboard. Only the following interfaces support ALL Country Modes.

- USB Keyboard (without alternate key encoding)
- AT, PS/2 25-286, 30-286, 50, 50Z, 60, 70, 80, 90 & 95 w/Std Key Encoding
- Keyboard Wedge for IBM AT PS2 with standard key encoding but without external keyboard
- AT, PS/2 25-286, 30-286, 50, 50Z, 60, 70, 80, 90 & 95 without Alternate Key
- Keyboard Wedge for IBM AT PS2 without alternate key encoding but without external keyboard

All other interfaces support ONLY the following Country Modes: U.S., Belgium, Britain, France, Germany, Italy, Spain, Sweden.

# **COUNTRY MODE**

<sup>\*</sup>Supports only the interfaces listed in the Country Mode feature description

# Country Mode = Denmark\* Country Mode = France Country Mode = French Canadian Country Mode = Germany Country Mode = Hungary\*

<sup>\*</sup>Supports only the interfaces listed in the Country Mode feature description

# **COUNTRY MODE (continued)**

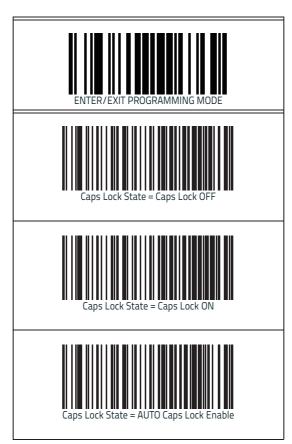
\*Supports only the interfaces listed in the Country Mode feature description

# Country Mode = Romania\* Country Mode = Slovakia\* Country Mode = Spain Country Mode = Sweden Country Mode = Sweden Country Mode = Switzerland\*

<sup>\*</sup>Supports only the interfaces listed in the Country Mode feature description

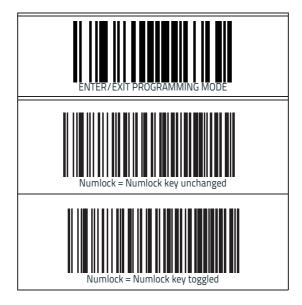
# **Caps Lock State**

This option specifies the format in which the reader sends character data. This applies to keyboard wedge interfaces. This does not apply when an alternate key encoding keyboard is selected.



## Numlock

This option specifies the setting of the Numbers Lock (Numlock) key while in keyboard wedge interface. This only applies to alternate key encoding interfaces. It does not apply to USB keyboard.



# **Programming**

The reader is factory-configured with a set of standard default features. After scanning the interface barcode from the Interfaces section, you can select other options and customize your reader through use of the instructions and programming barcodes available in the Gryphon™ I GD4102/GM4102 Product Reference Guide (PRG). Check the corresponding features section for your interface, and also the Data Editing and Symbologies chapters of the PRG.

tion.\*/9-

## **Using the Programming Barcodes**

This manual contains barcodes which allow you to reconfigure your reader. Some programming barcode labels, like the Standard Product Default Settings on page 28, require only the scan of that single label to enact the change. Other barcodes require the reader to be placed in Programming Mode prior to scanning them. Scan an ENTER/EXIT barcode once to enter Programming Mode, scan the desired parameter settings, then scan the ENTER/EXIT barcode a second time to accept your changes, exit Programming Mode and return the reader to normal opera-

#### **Configure Other Settings**

Additional programming barcodes are available in the Gryphon™ I GD4102/GM4102 PRG to allow for customizing programming features. If your installation requires different programming than the standard factory default settings, refer to the PRG.

#### **Resetting Standard Product Defaults**

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 barcode 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

# **Technical Specifications**

The following table contains Physical and Performance Characteristics, User Environment and Regulatory information.

Item	Description		
Physical Characteristics			
Color	White/Gray Black/Gray		
Dimensions	Height 7.1"/181 mm Length 3.9"/100 mm Width 2.8"/71 mm		
Weight (without cable)	Approximately 8.7 ounces/246 g 9.7 ounces/275 g (base charger)		
Electrical Character	istics		
Battery Type	Li-lon battery pack		
Typical charge time for full charge from	4,5hours with 12V external power supply adapter <sup>a</sup>		
full discharge	Max 22 hours with Host power (in this case no supply adapter is needed) <sup>a</sup>		
Operating autonomy (continuous reading)	50,000 reads (typical)		
Cradle consumption and DC input supply range	Volt 4.75-14 VDC; Power <8W <sup>b</sup> ; Max 500mA when in host/bus powered mode <sup>b</sup> .		
Performance Chara	cteristics		
Light Source	LEDs		
Roll (Tilt) Tolerance	± 35° from normal		
Pitch Tolerance	± 65°		
Skew (Yaw) Toler- ance	± 65°		
Field of View	10" (25.4cm) wide at 12.5" (31.8cm) from the reader		

a. Charge Times are much lower when battery is within daily typical operating condition.

b. Typical input current measured under factory default configuration.

Item	Description
item	Description
Depth of Field (Typi-cal) <sup>a</sup>	3 mil – 2.9" to 4.7" (7.5cm to 12cm) 13 mil <sup>d</sup> – 1.2" to 23.6" (3cm to 60cm) 20 mil – 1.2" to 31.5" (3cm to 80cm)
Minimum Element Width	3 mil
Print Contrast Mini- mum	15% minimum reflectance
Decode Capability	UPC/EAN/JAN, P2 /P5 add-ons; Code 39; Italian Pharmacode 39; Code 128; C128 ISBT; Code 128 add-ons; I 2 of 5; Standard 2 of 5; Code 11;Codabar; EAN 128; Code 93; MSI; GS1 DataBar™ Omnidirectional, GS1 DataBar™ Limited, GS1 DataBar™ Expanded; Code4, Code5.
Interfaces Sup- ported <sup>b</sup>	RS-232 Std, RS-232 Wincor-Nixdorf, RS-232 OPOS, IBM 46xx (ports58 and 9B) available with accessory cable, USB Com Std., USB Keyboard, USB Alternate Keyboard, USB OEM, Keyboard Wedge (AT with or w/o Alternate Key, IBM AT PS2 with or w/o Alternate Key, IBM 3153, IBM Terminals 31xx, 32xx,34xx, 37xx make only and make break keyboard, Digital Terminals VT2x, VT3xx, VT4xx, and Apple) and Wand Emulation.
User Environment	
Operating Tempera- ture	32° to 122° F (0° to 50° C)
Charging Tempera- ture	32° to 104° F (0° to 40° C)
Storage Temperature	-4° to 158° F (-20° to 70° C)
Humidity	Operating: 5% to 90% relative humidity, non-condensing
Drop Specifications	Scanner withstands 18 drops from 1.8 meters (5.9 feet) to concrete
Ambient Light Immu- nity	Up to 100,000 Lux
Contaminants Spray/rain Dust/ particulates	IEC 529-IP52 (scanner only)
ESD Level	16 KV

- a. 13 mils DOF based on EAN. All others are Code 39. All labels grade A, typical environmental light, 20°C, label inclination 10°
- b. See Interface Selection on page 15 for a listing of available interface sets by model type.

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Item	Description			
Regulatory				
See the Regulatory Add	See the Regulatory Addendum.			
Radio Features				
	433MHz model	910MHz model		
Working Center Frequency 433.920 MHz 910.000 MHz				
Range (in open air)	30 m			

System Configuration

910MHz model 433MHz model Max. number of devices per base sta-16 16 tion

# **LED and Beeper Indications**

The reader's beeper sounds and its LED illuminates to indicate various functions or errors on the reader. An optional 'Green Spot" also performs useful functions. The following tables list these indications. One exception to the behaviors listed in the tables is that the reader's functions are programmable, and may or may not be turned on. For example, certain indications such as the power-up beep can be disabled using programming barcode labels.

INDICATION	DESCRIPTION	LED	BEEPER
Power-up Beep	The reader is in the process of powering-up.		Reader beeps four times at highest fre- quency and volume upon power-up.
Good Read Beep	A label has been success- fully scanned by the reader.	LED behavior for this indi- cation is con- figurable via the feature 'Good Read: When to Indi- cate" (see the PRG for informa- tion.)	The reader will beep once at current frequency, volume, mono/bitonal setting and duration upon a successful label scan.
ROM Failure	There is an error in the reader's soft- ware/program- ming	Flashes	Reader sounds one error beep at highest vol- ume.
Limited Scan- ning Label Read	Indicates that a host connection is not estab- lished when the IBM or USB interface is enabled.	N/A	Reader 'chirps' six times at the highest fre- quency and current vol- ume.
Reader Active Mode	The reader is active and ready to scan.	The LED is lit steadily <sup>a</sup>	N/A

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INDICATION	DESCRIPTION	LED	BEEPER	
Reader Disabled	The reader has been disabled by the host.	The LED blinks contin- uously	N/A	
Green Spot is on continu- ously	While in Stand Mode or Trig- ger Stand Mode the green spot shall be on while in stand watch state.		N/A	
Green Spot <sup>a</sup> flashes momentarily	Upon success- ful read of a label, the soft- ware shall turn the green spot on for the time specified by the configured value.		N/A	
	lode - The followin Programming Mod		LY occur when	
Label Pro- gramming Mode Entry	A valid programming label has been scanned.	LED blinks continuously	Reader sounds four low fre- quency beeps.	
Label Pro- gramming Mode Rejec- tion of Label	A label has been rejected.	N/A	Reader sounds three times at lowest fre- quency and current vol- ume.	
Label Pro- gramming Mode Accep- tance of Par- tial Label	In cases where multiple labels must be scanned to program one feature, this indication acknowledges each portion as it is successfully scanned.	N/A	Reader sounds one short beep at highest fre- quency and current vol- ume.	

INDICATION	DESCRIPTION	LED	BEEPER
Label Pro- gramming Mode Accep- tance of Pro- gramming	Configuration option(s) have been successfully programmed via labels and the reader has exited Programming Mode.	N/A	Reader sounds one high fre- quency beep and 4 low fre- quency beeps followed by reset beeps.
Label Pro- gramming Mode Cancel Item Entry	Cancel label has been scanned.	N/A	Reader sounds two times at low frequency and current volume.

a. Except when in sleep mode or when a Good Read LED Duration other than 00 is selected

## **Error Codes**

Upon startup, if the reader sounds a long tone, this means the reader has not passed its automatic Selftest and has entered FRU (Field Replaceable Unit) isolation mode. If the reader is reset, the sequence will be repeated. The following table describes the LED flashes/beep codes associated with an error found.

NUMBER OF LED FLASHES/ BEEPS	ERROR	CORRECTIVE ACTION	
1	Configuration		
2	Interface PCB	Contact Helpdesk for assistance	
4	Reader Module		
5	Laser Pointer (if so equipped)		
6	Digital PCB		
14	CPLD/Code Mismatch		

# **Base Station Indications**

INDICATION	LEDS
Power-up Complete	Yellow LED on
Reader Disabled by the HOST or the communication with HOST is not established	Yellow LED blinking ~1Hz
Data/labels are transmitted to the HOST	Yellow LEDs turned off for 100mSec
Programming Mode	Yellow LED blinks quickly
Configuration alignment with the HH is in progress	Red LED blinks quickly
Battery charger in progress	Red LED on
Battery charger complete	Green LED on
Battery charger error	Green LED and Red LEDs blink alternatively ~1Hz
No HH is placed on the cradle	Red and Green LEDs off

# **Ergonomic Recommendations**



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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.

# **Cleaning Procedure**

Exterior surfaces and scan windows exposed to spills, smudges or debris accumulation require periodic cleaning to ensure best performance during scanning operations. Contacts on the scanner and base should also be cleaned as needed to ensure a good connection.

Follow the procedures described in this instruction sheet to keep your Gryphon device in good operating condition.



Be sure to turn off power and unplug the device from electrical outlet before cleaning.

#### **CAUTION**

## **Common Cleaning Solutions**

The cleaners and disinfectants listed below are recommended for use on Datalogic's Disinfectant-Ready Enclosures:

Cleaners	Disinfectants
Formula 409® Glass and surface cleaner	CaviWipes™
Isopropyl alcohol	Clorox® bleach
Dish soap and water	Hepacide Quat® II
Windex® Original (Blue)	Sani-Cloth®
	Virex® II 256



Disinfectants may be harsh on metal contacts. They are recommended for use only on enclosures.



DO NOT spray or pour cleaner directly onto the unit.

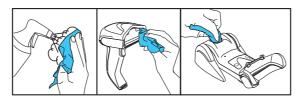
DO NOT use solutions in their concentrated form.

**CAUTION** 

DO NOT use aerosols, solvents or abrasives. DO NOT use paper towels or rough cloths to clean windows.

## Cleaning enclosure and window surfaces

- 1. Moisten a soft cloth with a recommended cleaning solution. Be sure to apply the solution to your cloth first. Wring excessive liquid from the cloth.
- Use the cloth to wipe down the surface of the unit.
   Use cotton swabs, lightly moistened, to reach in corners and crevices.
- 3. Minimize the amount of disinfectant applied to the contacts.
- 4. Use another clean dry cloth to remove any residue of the cleaning agent and ensure the unit is dry.



## Cleaning electrical contact surfaces

- Clean the enclosure and window first, as described above.
- 2. Use a soft cloth moistened with any isopropyl alcohol to clean the surface of the contact. Use care not to leave any cloth residue.
- 3. If needed, use a nylon bristled brush to remove stubborn contamination. Additionally, a clean pencil eraser can be rubbed on the handheld contacts.
- Finish by wiping with another clean dry cloth to remove any remaining cleaning agent and ensure the unit is dry.



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## **Datalogic Limited Factory Warranty**

#### **Warranty Coverage**

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:

- 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.

# **Support Through the Website**

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

- Downloads by selecting your product model from the dropdown 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**

# **NOTES**





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