⊘DATALOGIC

Gryphon™ I GM410X

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

Quick Reference Guide

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Design Patents: CN ZL200830142386.5; CN ZL200930006852.1; CN ZL201030175545.9; EP870787; EP1177943; USD599799; USD606076; USD629003

Utility Patents: CN ZL200680050007.8; EP0789315B1; EP0926620B1; EP0997760B1; EP1128314B1; EP1128315B1; EP1164536B1; EP1217571B1; EP1396811B1; EP1413971B1; EP1804089B1; EP1942442B1; US5481098; US5493108; US5992740; US6098883; US6260764; US6443360; US6454168; US6494376; US6517003; US6561427; US6808114; US6871785; US6997385; US7075663; US7387246; US8113430; USRE41349. Additional patents pending.

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NOTES

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- END -

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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 13).
3. Link to the Base Station (see page 18).
4. Select the Interface Type (see page 20).
5. Configure other settings if desired starting on page 32 (optional, depends on settings needed).

Star Models and Frequency

Gryphon Model	Base Station
Gryphon GM4100-XX-910	BC40x0-xx-910
Gryphon GM4101-xx-910	BC40x1-xx-910

Ensure that you use the appropriate base station for your Gryphon model.

CAUTION

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.

Standing   **Horizontal**

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.

> **NOTE** **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.

Standing, Horizontal or Vertical   **Horizontal Only**

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

Tab

Tab

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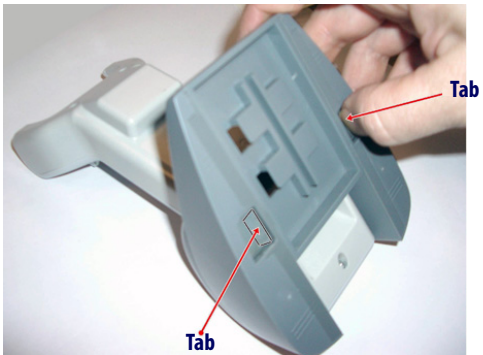
To ensure best contact and performance, do not intermix the parts of the two different mount sets.

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

Horizontal

Standing

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.

> **NOTE**
>
> **The Gryphon GM410X 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 33 **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
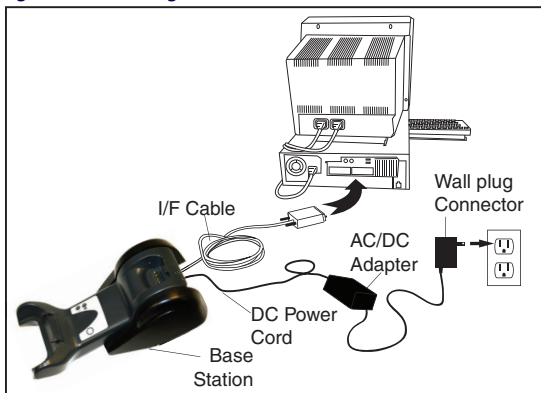
Securing the DC Power Cord (Optional)

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 9.

Figure 2. Options for routing the DC cord
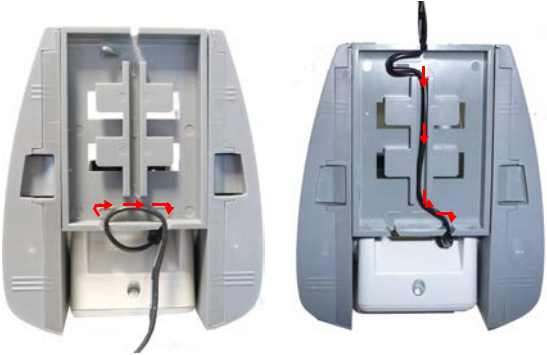
Please refer to the arrows depicted on the bottom of the base when placing the cables, detailed in Figure 3.

Figure 3. Arrows showing routing
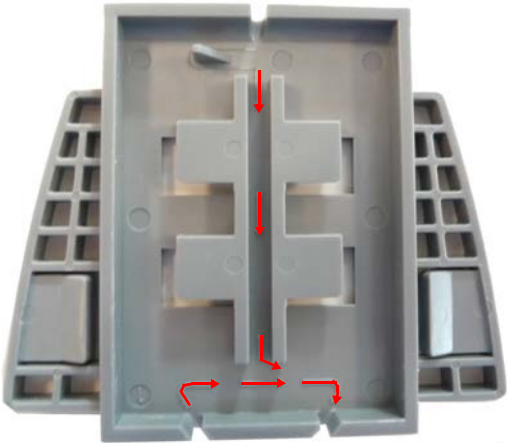
Host Connection: Verify before connection that the reader's cable type is compatible with your host equipment. Most connections plug directly into the host device as shown in Figure 4 on page 10. Keyboard Wedge interface cables have a 'Y' connection where its female end mates with the male end of the cable from the keyboard and the remaining end at the keyboard port on the terminal/PC.

Figure 4. Connecting to the Host
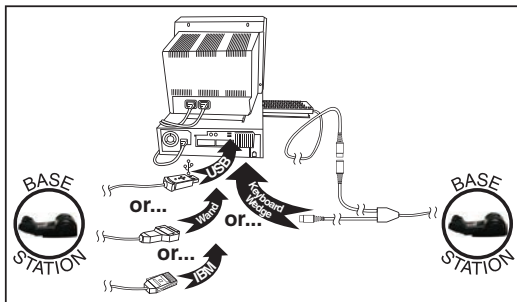
Power Connection : Plug the AC Adapter in to an approved AC wall socket with the cable facing downwards (as shown in Figure 1) to prevent undue strain on the socket.

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
⚡	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 completed	Green On = the Battery is completely charged.
🔋	Charging + Charge completed	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.

Display

The Gryphon I is also available with an optional Display. The FSTN Display with white LED backlight provides additional information.

Figure 7. Gryphon™ I Display

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.

NOTE

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.

WARNING

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.

WARNING

• **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.**

WARNING

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.

CAUTION

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.

CAUTION

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.

CAUTION

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.

CAUTION

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

CAUTION

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:

1. With a screwdriver, unscrew the battery cover screw.

2. Unplug the three screws securing the battery holder, and unplug the white connector.
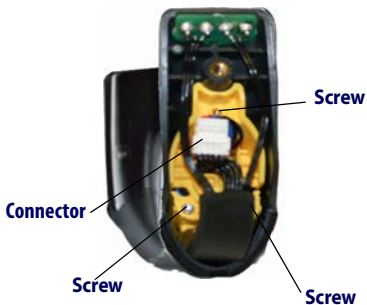
3. Carefully lift out the gold contacts circuit, and remove the battery holder while letting the white connector pass through the hole in the battery holder (as shown below).

Pass-through hole

Gold contacts circuit
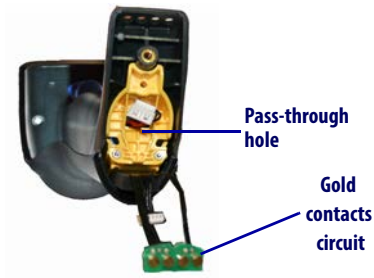
4. Remove the old battery from its place (if present), and insert the new battery in the same position.

5. Replace the battery holder, plug in the connector and return the contacts circuit to its previous location.

> **NOTE** **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.
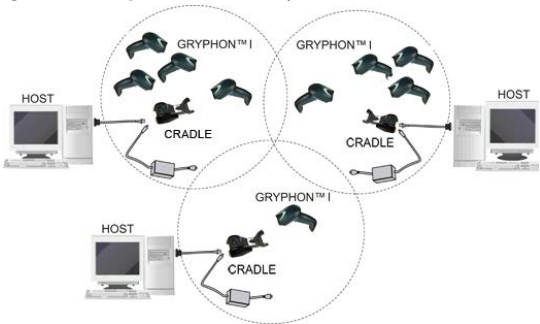

Unlink

System and Network Layouts

Stand Alone Layouts

Figure 8. Single Reader Layout
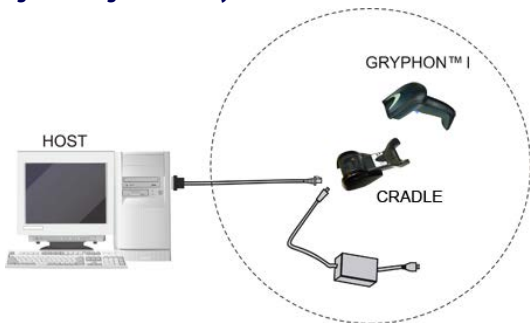
Figure 9. Multiple Reader Layout
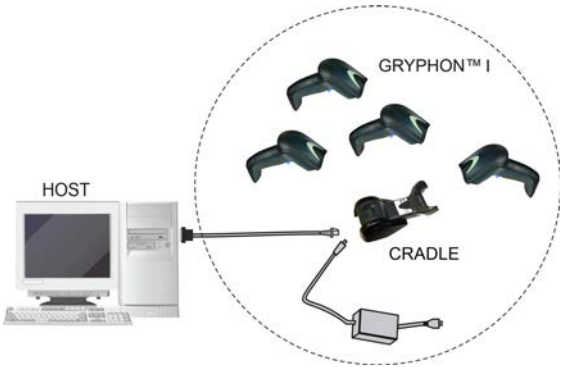
In stand alone systems, each cradle is connected to a single Host.

Figure 10. 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 20 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

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 GD4100/GM410X 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.
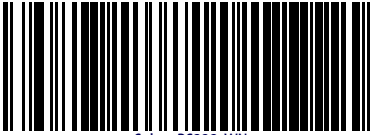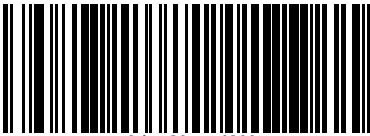
RS-232

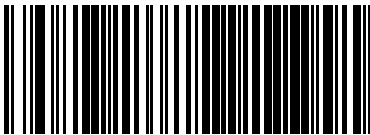RS-232 standard interface
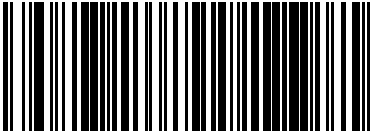
Select RS232-STD

RS-232 Wincor-Nixdorf

Select RS232-WN
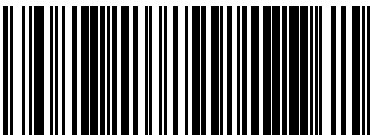
RS-232 for use with OPOS/UPOS/JavaPOS

Select RS-232 OPOS

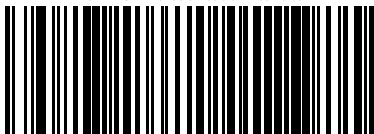USB Com to simulate RS-232 standard interface

Select USB-COM-STD[a]

IBM

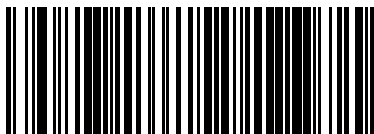IBM-46xx Port 5B reader interface

Select IBM-P5B

IBM (continued)

IBM-46xx Port 9B reader interface

Select IBM-P9B
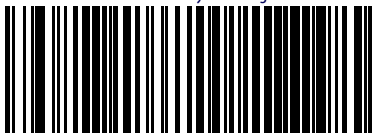
USB-OEM

USB-OEM
(can be used for OPOS/UPOS/JavaPOS)

Select USB-OEM

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/
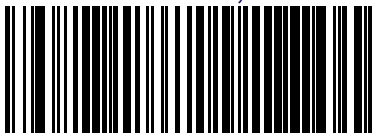Standard Key Encoding

Select KBD-AT

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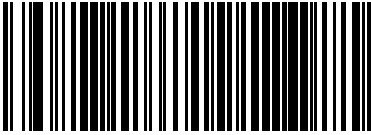keyboard

Select KBD-AT-NK

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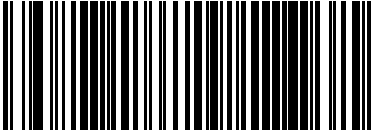w/Alternate Key

Select KBD-AT-ALT

KEYBOARD (continued)

Keyboard Wedge for IBM AT PS2 with alternate key encoding but without external keyboard
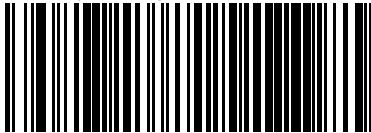
Select KBD-AT-ALT-NK

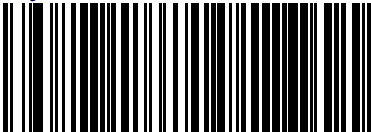PC/XT w/Standard Key Encoding

Select KBD-XT

Keyboard Wedge for IBM Terminal 3153

Select KBD-IBM-3153

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

Select KBD-IBM-M

Keyboard Wedge for IBM Terminals 31xx, 32xx, 34xx, 37xx make break keyboard
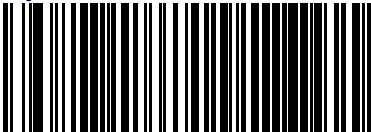
Select KBD-IBM-MB

Keyboard Wedge for DIGITAL Terminals
VT2xx, VT3xx, VT4xx

Select KBD-DIG-VT

KEYBOARD (continued)

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
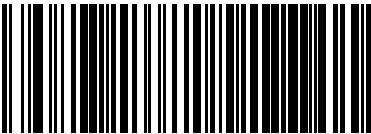
Select WAND

Keyboard Interface

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

Standard Factory Settings

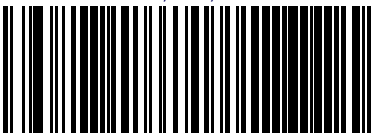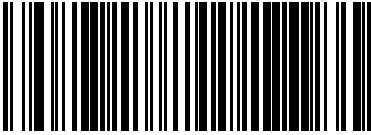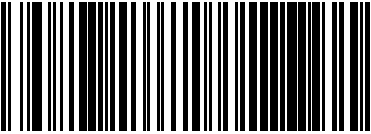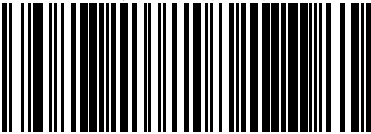Reference the Gryphon™ I GD4100/GM410X Product Reference Guide (PRG) for a listing of standard factory settings.

Scancode Tables

Reference the Gryphon™ I GD4100/GM410X 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
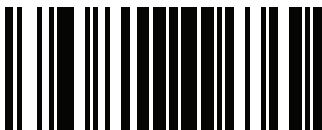
ENTER/EXIT PROGRAMMING MODE

Country Mode = U.S.
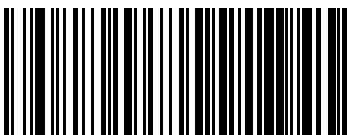
Country Mode = Belgium
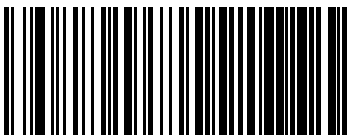
Country Mode = Britain
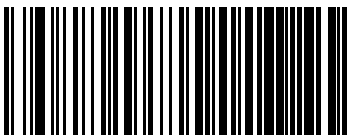
Country Mode = Croatia*
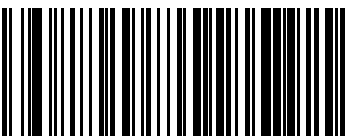
Country Mode = Czech Republic*

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

COUNTRY MODE (continued)
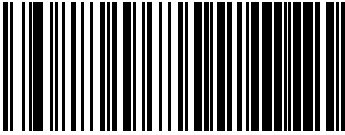
Country Mode = Denmark*
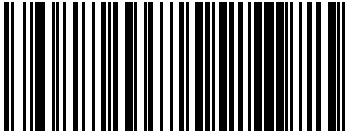
Country Mode = France
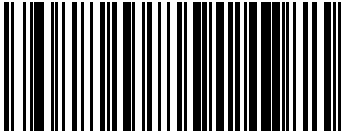
Country Mode = French Canadian
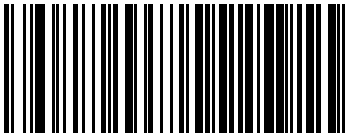
Country Mode = Germany
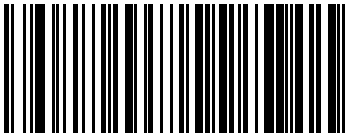
Country Mode = Hungary*

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

COUNTRY MODE (continued)
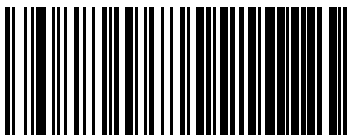
Country Mode = Italy
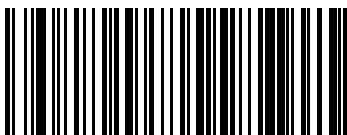
Country Mode = Japanese 106-key*
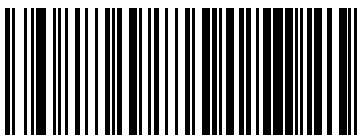
Country Mode = Lithuanian
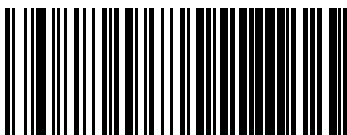
Country Mode = Norway*
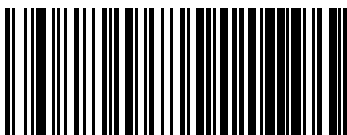
Country Mode = Poland*
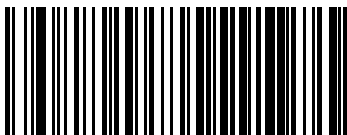
Country Mode = Portugal*

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

COUNTRY MODE (continued)
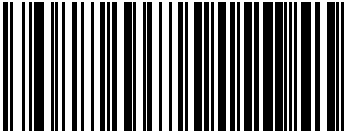
Country Mode = Romania*
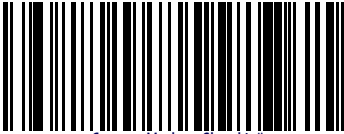
Country Mode = Slovakia*
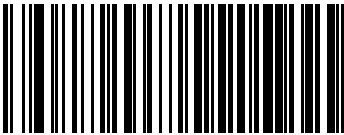
Country Mode = Spain
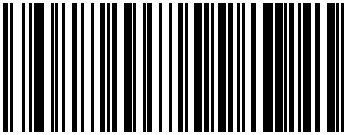
Country Mode = Sweden
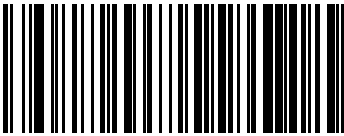
Country Mode = Switzerland*

*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.
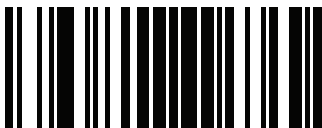
ENTER/EXIT PROGRAMMING MODE

Caps Lock State = Caps Lock OFF
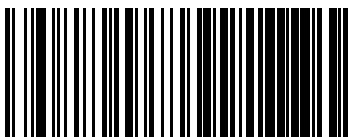
Caps Lock State = Caps Lock ON
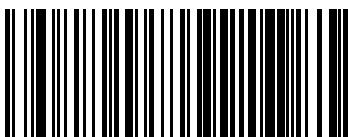
Caps Lock State = AUTO Caps Lock Enable

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.

ENTER/EXIT PROGRAMMING MODE

Numlock = Numlock key unchanged

Numlock = Numlock key toggled

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 GD4100/GM410X Product Reference Guide (PRG). Check the corresponding features section for your interface, and also the Data Editing and Symbologies chapters of the PRG.

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 32, 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 operation.

Configure Other Settings

Additional programming barcodes are available in the Gryphon™ I GD4100/GM410X 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.

> **NOTE**
> **Factory defaults are based on the interface type. Configure the reader for the correct interface before scanning this label.**
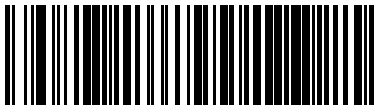
Standard Product Default Settings

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 (reader with display) 8.7 ounces/246 g (base charger)
Electrical Characteristics	
Battery Type	Li-Ion battery pack
Typical charge time for full charge from full discharge	4 hours with 12V external power supply adapter[a]
	Max 22 hours with Host power (in this case no supply adapter is needed)[a]
Operating autonomy (continuous reading)	50,000 reads (typical)
Cradle consumption and DC input supply range	Volt 4.75-14 VDC; Power <8W[b]; Max 500mA when in host/bus powered mode[b].
Performance Characteristics	
Light Source	LEDs
Roll (Tilt) Tolerance	± 35° from normal
Pitch Tolerance	± 65°
Skew (Yaw) Tolerance	± 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
Depth of Field (Typical)[a]	3 mil – 2.9" to 4.7" (7.5cm to 12cm) 13 mil[d] – 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 Minimum	15% minimum reflectance
Decode Capability	UPC/EAN/JAN, P2 /P5 add-ons; Code 39; Italian Pharma-code 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 Supported[b]	RS-232 Std, RS-232 Wincor-Nixdorf, RS-232 OPOS, IBM 46xx (ports5B and 9B), 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, PC-XT, 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 Temperature	32° to 122° F (0° to 50° C)
Charging Temperature	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 Immunity	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 20 for a listing of available interface sets by model type.

Item	Description	
Regulatory		
Electrical Safety	UL 60950, CSA C22.2 No. 60950, IEC 60950	
EMI/RFI	**433 MHz model** Europe - CE, Russia – Gost; Australia – Ctick; China – SRRC; Singapore – IDA, Anatel Brazil	**910 MHz model** USA/Canada – FCC/IC; Mexico – NOM + Cofetel
LED class safety	IEC Class 1	
Radio Features		
	433MHz model	**910MHz model**
Working Center Frequency	433.920 MHz	910.000 MHz
Range (in open air)	30 m	
System Configuration		
	433MHz model	**910MHz model**
Max. number of devices per base station	16	16

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 frequency and volume upon power-up.
Good Read Beep	A label has been successfully scanned by the reader.	LED behavior for this indication is configurable via the feature "Good Read: When to Indicate" (see the PRG for information.)	The reader will beep once at current frequency, volume, mono/bi-tonal setting and duration upon a successful label scan.
ROM Failure	There is an error in the reader's software/programming	Flashes	Reader sounds one error beep at highest volume.
Limited Scanning Label Read	Indicates that a host connection is not established when the IBM or USB interface is enabled.	N/A	Reader 'chirps' six times at the highest frequency and current volume.
Reader Active Mode	The reader is active and ready to scan.	The LED is lit steadily[a]	N/A

INDICATION	DESCRIPTION	LED	BEEPER
Reader Disabled	The reader has been disabled by the host.	The LED blinks continuously	N/A
Green Spot is on continuously	While in Stand Mode or Trigger Stand Mode the green spot shall be on while in stand watch state.	N/A	N/A
Green Spot[a] flashes momentarily	Upon successful read of a label, the software shall turn the green spot on for the time specified by the configured value.	N/A	N/A
Programming Mode - The following indications ONLY occur when the reader is in Programming Mode.			
Label Programming Mode Entry	A valid programming label has been scanned.	LED blinks continuously	Reader sounds four low frequency beeps.
Label Programming Mode Rejection of Label	A label has been rejected.	N/A	Reader sounds three times at lowest frequency and current volume.
Label Programming Mode Acceptance of Partial 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 frequency and current volume.

INDICATION	DESCRIPTION	LED	BEEPER
Label Programming Mode Acceptance of Programming	Configuration option(s) have been successfully programmed via labels and the reader has exited Programming Mode.	N/A	Reader sounds one high frequency beep and 4 low frequency beeps followed by reset beeps.
Label Programming 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	
4	Reader Module	
5	Laser Pointer (if so equipped)	Contact Helpdesk for assistance
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

⚠️ **CAUTION**

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

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 the base should also be cleaned as needed to ensure a good connection.
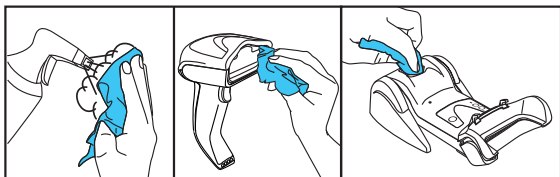
Use a soft, dry cloth to clean the product. If the product is very soiled, clean it with a soft cloth moistened with a diluted non-aggressive cleaning solution or diluted ethyl alcohol.

⚠️ **CAUTION**

Do not use abrasive or aggressive cleansing agents or abrasive pads to clean scan windows, contacts or plastics. Do not spray or pour liquids directly onto the unit.

Regulatory Information

All models are designed to be compliant with rules and regulations in locations they are sold and will be labeled as required.

Any changes or modifications to equipment, not expressly approved by Datalogic could void the user's authority to operate the equipment.

Statement of Agency Compliance

This device complies with part 15 of the FCC Rules. 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.

FCC Class B Compliance Statement

The user is cautioned that changes or modifications not expressly approved by the part responsible for compliance could void the user's authority to operate the equipment.

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 in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

FCC RF Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits under Specific Absorption Rate (SAR) tests for portable devices operating closer than 20 cm to nearby persons, set forth in an uncontrolled environment. The Gryphon M4100 cordless imaging reader has been demonstrated to meet these RF emissions safety limits.

Canadian Notice

This equipment does not exceed the Class B limits for radio noise emissions as described in the Radio Interference Regulations of the Canadian Department of Communications.

Le present appareil numerique n'emet pas de bruits radioelectriques depassant les limites applicables aux appareils numeriques de la classe B prescrites dans le Reglement sur le brouillage radioelectrique edicte par le ministere des Communications du Canada.

⚠ **CAUTION**

Do not attempt to open or otherwise service any components in the optics cavity. Opening or servicing any part of the optics cavity by unauthorized personnel may violate laser safety regulations.

Power Supply

This device is intended to be connected to a UL Listed/CSA Certified computer which supplies power directly to the reader or else be supplied by UL Listed/CSA Certified Power Unit marked "Class 2" or LPS power source rated 5-14V minimum 900mA, which supplies power directly to the Base/Charger via the power connector of the Base itself.

⚠ Atencíon	**Características de la fuente de alimentación eléctrica.**	
	Entrada:	100 - 240 Vca min 400 mA 50-60 Hz
	Salida:	12VDC, máx 1500mA (-)Negativo al centro

Utilice en su red solo fuentes certificadas en Argentina.

El uso de fuentes de alimentación no compatibles puede resultar en riesgo de incendio o de choque eléctrico para el usuario.

Cofetel Mexico Update

**Este Producto es usable en Mexico
Certificado Nr. RCPDASM09-1246 (COFETEL)
Certificado Nr. RCPDASM09-1247 (Cofetel)
Certificado Nr. RCPDAST11-0732 (Cofetel)**

La operación de este equipo está sujeta a las siguientes dos condiciones: (1) es posible que este equipo o dispositivo no cause interferencia perjudicial y (2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada.

China RoHS Table of Restricted Elements (Scanner)

PART 部件名称	Lead (Pb) 铅	Mercury (Hg) 汞	Cadmium (Cd) 镉	Hexavalent Chromium (CrVI) 六价铬	Polybrominated biphenyls (PBB) 多溴联苯	Polybrominated diphenyl ethers (PBDE) 多溴二苯醚
			有毒有害物质或元素			
Printed Circuit Board Assembly 电路板组件	X	O	O	O	O	O
Assy, Optics Block 光学组件	X	O	O	O	O	O
Assy, Module 光学组件	X	O	O	O	O	O

O: 代表此种部件的所有均质材料中所含的该种有毒有害物质均低于《中华人民共和国信息产业部所颁布的《电子信息产品中有毒有害物质的限量要求》(SJ/T 11363-2006) 规定的限量。

X: 代表此种部件所用的均质材料中，至少有一类材料其所含的有毒有害物质高于《中华人民共和国信息产业部所颁布的《电子信息产品中有毒有害物质的限量要求》(SJ/T 11363-2006) 规定的限量

China RoHS Table of Restricted Elements (Base)

PART 部件名称	Lead (Pb) 铅	Mercury (Hg) 汞	Cadmium (Cd) 镉	Hexavalent Chromium (Cr(VI)) 六价铬	Polybrominated biphenyls (PBB) 多溴联苯	Polybrominated diphenyl ethers (PBDE) 多溴二苯醚
			有毒有害物质或元素			
Printed Circuit Board Assembly 电路板组件	X	O	O	O	O	O
Assy, Module 光学组件	X	O	O	O	O	O

O: 代表此种部件的所有质材料中所含的该种有毒有害物质均低于中华人民共和国信息产业部所颁布的《电子信息产品中有毒有害物质的限量要求》(SJ/T 11363-2006) 规定的限量。

X: 代表此种部件所用的均质材料中，至少有一类将料共所含的有毒有害物质高于中华人民共和国信息产业部所颁布的《电子信息产品中有毒有害物质的限量要求》(SJ/T 11363-2006) 规定的限量

Anatel Statement

ANATEL
Agência Nacional de Telecomunicações

0019-10-4727

(01)07898916345833

GM4100-WH-433
BC4010-WH-433

ANATEL
Agência Nacional de Telecomunicações

0019-10-4727

(01)07898916345826

GM4100-BK-433
BC4010-BK-433

ANATEL
Agência Nacional de Telecomunicações

0019-10-4727

(01)07898916345819

GM4100-WH-D433
BC4030-WH-433


ANATEL
Agência Nacional de Telecomunicações

0019-10-4727

(01)07898916345802

GM4100-BK-D433
BC4030-BK-433

"Este equipamento opera em caráter secundário, isto é, não tem direito a proteção contra interferência prejudicial, mesmo de estações do mesmo tipo, e não pode causar interferência a sistemas operando em caráter primário."

WEEE Statement

	Waste Electrical and Electronic Equipment (WEEE) Statement
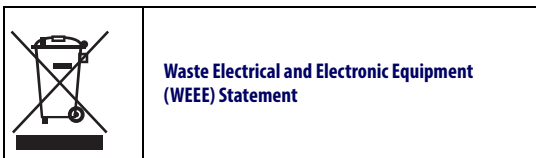
English
For information about the disposal of Waste Electrical and Electronic Equipment (WEEE), please refer to the website at www.datalogic.com.

Italian
Per informazioni sullo smaltimento delle apparecchiature elettriche ed elettroniche consultare il sito Web www.datalogic.com.

French
Pour toute information relative à l'élimination des déchets électroniques (WEEE), veuillez consulter le site internet www.datalogic.com.

German
Informationen zur Entsorgung von Elektro- und Elektronik- Altgeräten (WEEE) erhalten Sie auf der Webseite www.datalogic.com.

Spanish
Si desea información acerca de los procedimientos para el desecho de los residuos del equipo eléctrico y electrónico (WEEE), visite la página Web www.datalogic.com.

Portuguese
Para informações sobre a disposição de Sucatagem de Equipamentos Elétricos e Eletrônicos (WEEE -Waste Electrical and Electronic Equipment), consultar o site web www.datalogic.com.

Chinese
有关处理废弃电气电子设备 (WEEE) 的信息，请参考 Datalogic 公司的网站： www.datalogic.com.。

Japanese
廃電気電子機器 (ＷＥＥＥ) の処理についての関連事項は Datalogic のサイト www.datalogic.com をご参照下さい。

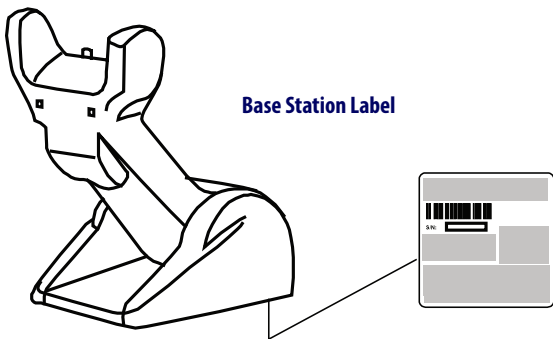# Imager Labeling

Labels are shown here to illustrate their location only. Please view the labels on your product for actual details.

Scanner Regulatory Label
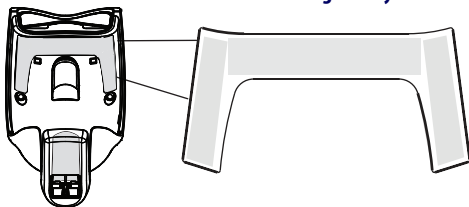
Base Station Label

Warranty

Datalogic warrants to Customer that Datalogic's products will be free from defects in materials and workmanship for a period of 3 years from product shipment. This warranty does not extend to batteries and cables.

Datalogic Limited Factory Warranty

Warranty Coverage

Datalogic ADC ("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.

◆DATALOGIC

DECLARATION OF CONFORMITY

EC-056

((13 　Datalogic ADC Srl, Via S. Vitalino, 13
　　　　　　Lippo di Calderara di Reno (BO) 40012 Italy

Rev.: 4

Pag.: 1 di 1

La presente dichiarazione di conformità è rilasciata sotto la responsabilità esclusiva di Datalogic ADC Srl per:
This Declaration of Conformity is issued under the sole responsibility of Datalogic ADC Srl for:
Cette déclaration de conformité est établie sous la seule responsabilité de Datalogic Srl pour:
Diese Konformitätserklärung wird unter der alleinigen Verantwortung des Datalogic ADC Srl erteilt für:
Esta declaración de conformidad se expide bajo la exclusiva responsabilidad de Datalogic ADC Srl para:

Gryphon GM 41xx ; Cordless Barcode Reader
Gryphon BC 40xx ; Cordless Base Station /Charger

　　　　　　e tutti i suoi modelli
　　　　　　and all its models
　　　　　　et tous ses modèles
　　　　　　und seine Modelle
　　　　　　y todos sus modelos

sono conformi alle Direttive del Consiglio Europeo sottoelencate:
are in conformity with the requirements of the European Council Directives listed below:
sont conformes aux spécifications des Directives de l'Union Européenne ci-dessous:
den nachstehenden angeführten Direktiven des Europäischen Rats:
cumple con los requisitos de las Directivas del Consejo Europeo, según la lista siguiente:

1999/5/EC - R&TTE Directive
2011/65/EU - RoHS Directive

Questa dichiarazione è basata sulla conformità dei prodotti alle norme seguenti:
This declaration is based upon compliance of the products to the following standards:
Cette déclaration repose sur la conformité des produits aux normes suivantes:
Diese Erklärung basiert darauf, daß das Produkt den folgenden Normen entspricht:
Esta declaración se basa en el cumplimiento de los productos con las siguientes normas:

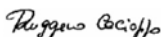|	
ETSI EN 301 489-3 V1.4.1, AUGUST 2002 :	*ELECTROMAGNETIC COMPATIBILITY AND RADIO SPECTRUM MATTERS (ERM); ELECTROMAGNETIC COMPATIBILITY (EMC) STANDARD FOR RADIO EQUIPMENT AND SERVICES; PART 3: SPECIFIC CONDITIONS FOR SHORT-RANGE DEVICES (SRD) OPERATING ON FREQUENCIES BETWEEN 9kHz AND 40GHz*
EN 301 489-1 V1.8.1, APRIL 2008	*ELECTROMAGNETIC COMPATIBILITY AND RADIO SPECTRUM MATTERS (ERM); ELECTROMAGNETIC COMPATIBILITY (EMC) STANDARD FOR RADIO EQUIPMENT AND SERVICES; PART 1: COMMON TECHNICAL REQUIREMENTS*
ETSI EN 300 220-2 V2.1.2, JUNE 2007 :	*ELECTROMAGNETIC COMPATIBILITY AND RADIO SPECTRUM MATTERS (ERM); SHORT RANGE DEVICES (SRD); RADIO EQUIPMENT TO BE USED IN THE 25MHz TO 1000MHz FREQUENCY RANGE WITH POWER LEVELS RANGING UP TO 500mW; PART 2: HARMONIZED EN COVERING ESSENTIAL REQUIREMENTS UNDER ARTICLE 3.2 OF THE R&TTE DIRECTIVE*
EN 60950-1, APRIL 2006 + A11:2009 + A1:2010 + A12:2011 :	*INFORMATION TECHNOLOGY EQUIPMENT - SAFETY - PART 1 : GENERAL REQUIREMENTS*
EN 50581, SEPTEMBER 2012:	*TECHNICAL DOCUMENTATION FOR THE ASSESSMENT OF ELECTRICAL AND ELECTRONIC PRODUCTS WITH RESPECT TO THE RESTRICTION OF HAZARDOUS SUBSTANCES*

Lippo di Calderara, March29th ,
2013

RUGGERO CACIOPPO
QUALITY & RELIABILITY MANAGER - EUROPE

Ruggero Cacioffo

DATALOGIC

www.datalogic.com

820059114   (Rev M)   March 2014