Gryphon™ I GBT/GM4200

QUICK REFERENCE GUIDE

General Purpose Handheld
Bar Code Reader
with Bluetooth® Wireless Technology or
Datalogic's STAR Cordless System™

DATALOGIC

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- END -

Software Product Policy

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NOTES

GRYPHON™ GBT/GM4200

DESCRIPTION

The Gryphon™ product series from Datalogic has been perceived as one of the most innovative readers since the beginning and the new generation of 4200 and 4500 series wireless readers reinforce this concept thanks to the battery wireless charging system that, coupled with an outstanding design, unchallenged ergonomics and a rich feature set, bring the Datalogic Gryphon GBT/GM 4200 and 4500 series to the TOP of hand held scanners for general purpose applications.

On top of contactless recharging, the Datalogic Gryphon GBT/GM4200 series readers' ability to capture bar codes from near to far, to read both high-density and low resolution codes, to decode hard-to-read, poor or damaged codes and to easily read bar codes from mobile devices make these readers the perfect choice for today's and tomorrow's applications in retail and office environments, pharmacies, light industrial, warehouses and manufacturing plants.

Top Productivity for POS and Document Handling

Perfect for manual reading, the Gryphon GBT/GM4200 linear imager uses Datalogic's Motionix ™ motion detection technology that detects the operator's natural actions to automatically switch the scanner into "ready to read" scan mode. The distinctive "soft line viewfinder" of Datalogic helps the operator to easily identify the code to be read, making easier and faster to point, shoot and decode the correct label, reducing accidental readings in an environment with multiple bar codes.

Decoding

The Gryphon™ I GBT/GM4200 reliably decodes all standard 1D (linear), including GS1 DataBar™ linear codes, Postal Codes (China Post). The data stream, acquired from decoding a symbol, is rapidly sent to the host. The reader is immediately available to read another symbol.

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 42).
3. Link to the Base Station (see page 13).
4. Select the Interface Type (see page 15).
5. Configure the Reader starting on page 16 (optional, depends on settings needed)

NOTE: According to recent modification of Regulation for shipping Li-Ion based battery packs, the products and their spare battery packs parts are shipped with a very low residual charge (low state of charge).
Hence the needs:

- **that a new product must be fully recharged before starting to use it.**

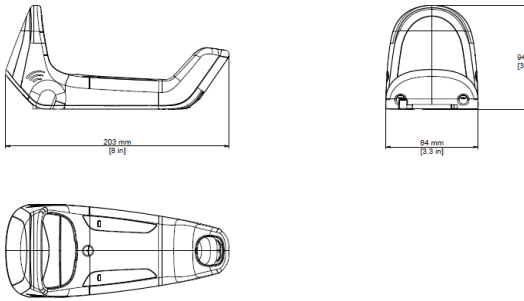
and

- **that battery packs of the stocked products GBT/GM4200 and spare battery pack parts must be periodically recharged. For instance, by using a WLC4190 cradle powered up with a 12V Datalogic AC/DC adapter (cod.8-0935) or a USB Type-C cable for at least 30 minutes each 3 months.**

Positioning the Base Station

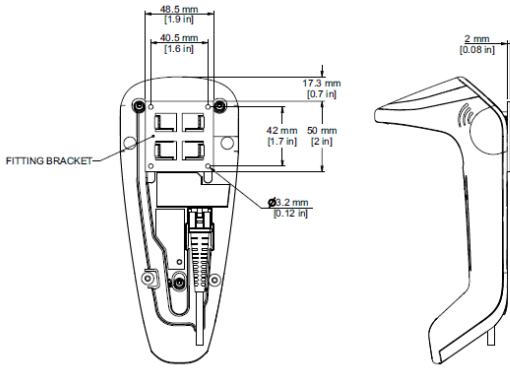
The base station/charger may be set up in desk application to hold the reader in two different positions, either a horizontal or vertical position, in order to provide the most comfortable use depending on the needs.

Figure 1 - Horizontal Position



This position is preferred, unless a different specific positioning is required, for its outmost ease of insertion as well as the minimum effort and attention required to customer when docking the scanner.

Figure 2 - Vertical Position

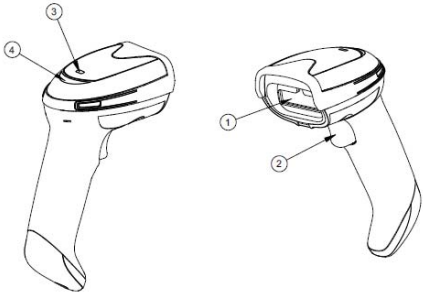


NOTE: For vertical installation, do not exceed two meters in height.

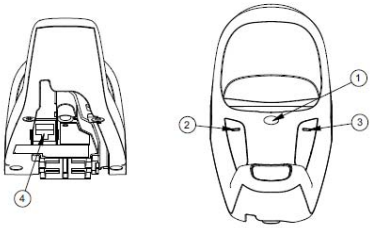
READER, CRADLE AND LEDS DESCRIPTION

LEDs on the gun provide information about the battery charging status as well as data transmission.

Figure 3 - Gryphon Base LEDs



1. Scan Window
2. Trigger
3. Battery & Recharge LED
4. Good Read LED



1. Capacitive Touch Service Button
2. Power LED
3. Recharge LED
4. Communication Port

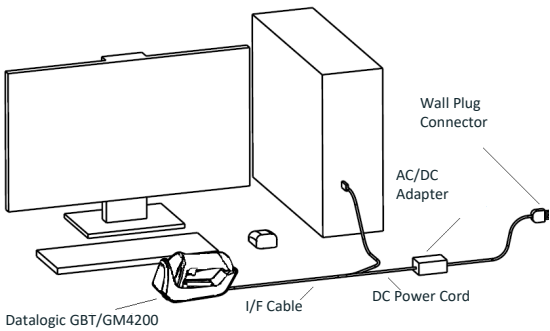
CONNECTING THE BASE STATION

Figure 4 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.

NOTE: When powered by the Terminal, the battery charger is automatically set as Slow charge. To set the charging in fast mode, use an external powered USB cable or type-C cable (see "Technical Specifications" on page 33 for more details).

Base Station Connection and Routing — Fully insert the Interface (I/F) Cable connector into its port in the underside of the Base Station.

Figure 4 - 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 base station positioning: horizontal or wall mount. The cable 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 5.

Figure 5 - Options for routing the DC cord

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 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 6 - Connecting to the Host

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

SYSTEM AND NETWORK LAYOUTS

Stand Alone Layouts

Figure 7 - Single Reader Layout

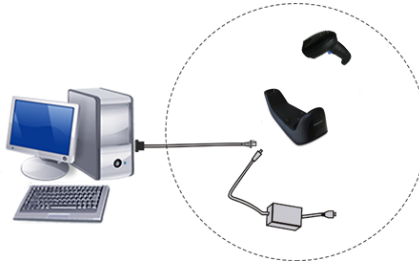
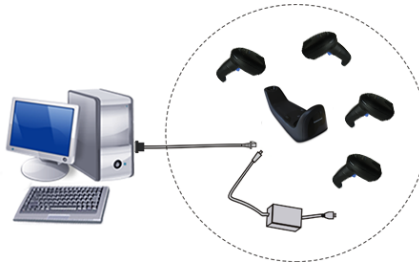
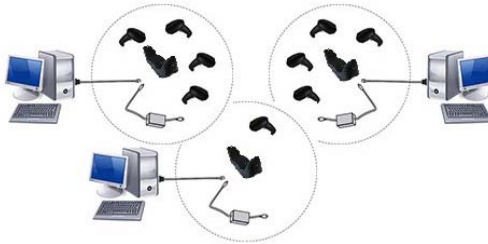


Figure 8 - Multiple Reader Layout



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

Figure 9 - Multiple Stand Alone Layout



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

USING THE GBT/GM4200 SCANNER

Scanner LEDs

Specific LEDs on the Gryphon Scanner provide information about good reading result (3GL) and battery status.
The Battery Status information can be easily retrieved by double-tapping with your fingers on top of the head of the scanner. The following table lists the battery status LED colors and their meaning.

Table 1 - Battery LED

COLOR	BATTERY STATUS
Solid color (3s time-out): • Green • Amber	charge = 50% - 100% charge = 2% - 50%
Red blinking	charge less than 2%

USING THE WLC4190 RADIO BASE

Radio Base LEDs

LEDs on the Gryphon Base provide information about the Base as well as battery charging status, as shown in Figure 10.

Figure 10 - Gryphon Base LEDs

Table 2 - Radio Base LEDs

LED		STATUS
1	Power ON / Data	Green ON = Base is powered Green Blinking = Base receives data and commands from the Host or the Reader.
2	Charging	Green ON = the battery is completely charged Green fading = battery level 51 to 99% Amber fading = battery level 1 to 50% Red fading = pre-charge

The capacitive touch button can be used to force device connection via the Datalogic Aladdin Software tool and for paging the scanner when it is activated. Refer to the Gryphon I GBT/GM4200 Product Reference Guide (PRG) for a more detailed explanation.

REPLACING THE BATTERY PACK

NOTE: Before proceeding, read "Battery Safety" on page 43. To ensure maximum performance, Datalogic recommends the replacement of the rechargeable battery pack if you note either of the following conditions:

- **battery life drops below approximately 80% of the original life;**
- **battery charging time increases significantly.**

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

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

2. Carefully remove the battery cable out of its connector and extract the battery pack from its slot.

3. Insert the new battery in the same position.

4. Plug the battery cable into its connector.

NOTE: When inserting the new battery into the handle, take care to position the battery and the connector as illustrated above.

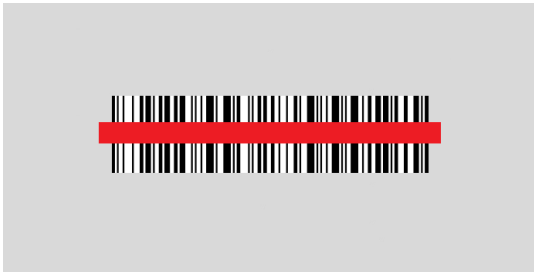
5. Insert the cover in the handle and screw it into place.

USING THE GRYPHON™ I GBT/GM4200

The Gryphon™ I GBT/GM4200 reader normally works by capturing and decoding codes. It is equipped with an internal Motionix™ motion-sensing function which activates the aiming system on device motion. The intelligent aiming system indicates the field of view which should be positioned over the bar code:

Aiming System

Relative Size and Location of Aiming Pattern



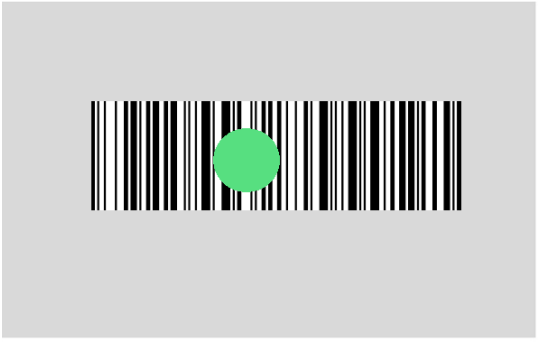
Linear Bar

A red beam illuminates the label. The field of view indicated by the aiming system will be smaller when the reader is closer to the bar code and larger when it is farther from the code. Symbologies with smaller bars or elements (mil size) should be read closer to the unit. Symbologies with larger bars or elements (mil size) should be read farther from the unit. If the aiming system is centered and the entire bar code is within the aiming field,

you will get a good read. Successful reading is signaled by an audible tone plus a good-read green spot LED indicator.

Refer to the Gryphon I GBT/GM4200 Product Reference Guide (PRG) for more information about this feature and other programmable settings.

Relative Size and Location of Green Spot

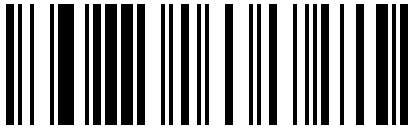


LINKING THE READER

Link Datalogic Devices to Base

Before configuring the interface, it is necessary to link the handheld with the base.

To link the handheld and the base, simply put it into the base. If the reader was previously linked to another base, you must first scan the **Unlink** bar code before re-linking it to the new base.



Unlink

Link Scanner as Serial Device to a Bluetooth Host

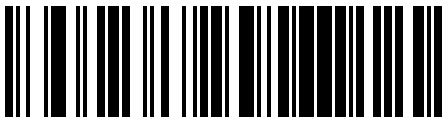
Use this procedure to let the scanner communicate with a Bluetooth host using the Bluetooth Serial Port Profile (SPP).

1. If using a Bluetooth adapter on the host device, install any driver provided with the adapter.

2. Scan the **Link to Host in SPP mode** label below to make the scanner visible to the host device.

3. Use the Bluetooth manager of the host device to “Discover new devices” and select "GBT4200...". If you receive an error message, it may be necessary to change the security settings on either the host device or the scanner.

4. Use an RS-232 terminal program to see incoming data on the port designated by the Bluetooth manager of the host device.



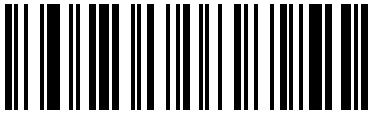
Link to Host in SPP Mode

Link Scanner as HID device to a Bluetooth host

Use this procedure to send data to a Bluetooth host using the Bluetooth HID profile.

1. If using a Bluetooth adapter on the host device, install any driver provided with the adapter.
2. Scan the **Link to Host in HID mode** label below to make the scanner visible to the host device.
3. Use the Bluetooth manager of the host device to "Discover new devices" and select "GBT4200 ...". If you receive an error message, it may be necessary to change the security settings on either the host device or the scanner.
4. On the host device, open the program that is meant to receive the incoming data.

The data transmitted by the scanner will appear in the program as if it was typed using the keyboard of the host device.



Link to Host in HID mode

NOTE: The Gryphon I GBT4200 can be set up to authenticate the remote system when connecting, by entering a Bluetooth passkey or a PIN code. If you want to set the security level and authentication options suitable for your application, or when adding new equipment to a system that requires authentication or uses a custom security PIN, please see the PRG for information.

POWER OFF

Scan the bar code below to shut off power to the hand-held until the next trigger pull.

Power Off

SELECTING THE INTERFACE TYPE

Upon completing the physical connection between the reader and its host, proceed directly to Interface Selection below for information and programming for the interface type supported by the reader. Scan the appropriate bar code to select your system's correct interface type, according to your application.

For interfaces other than those listed in this manual, see the Gryphon™ I GBT/GM4200 Product Reference Guide (PRG), available online at www.datalogic.com.

Interface Selection

The reader will support all the following host interfaces:

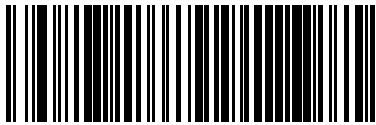
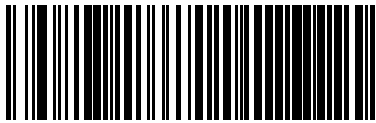
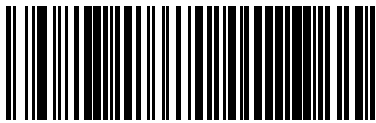
- RS-232 STD
- RS-232 WN
- IBM46XX port 9b (a specific cable is required)
- USB HID POS
- USB Toshiba TEC
- USB (Keyboard, COM, OEM)
- USB Composite (Keyboard + COM)
- Keyboard Wedge

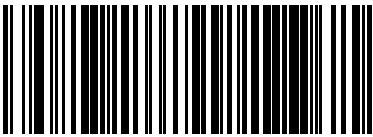
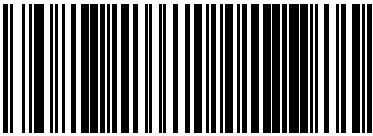
Information and programming options for each interface type are provided in this section. For defaults and additional information associated with each interface, proceed to the corresponding chapter in the Gryphon™ I GBT/GM4200 PRG.

CONFIGURING THE INTERFACE

Scan the appropriate programming bar code to select the interface type for your system.

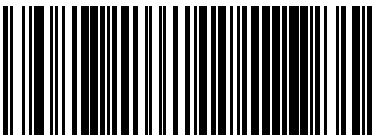
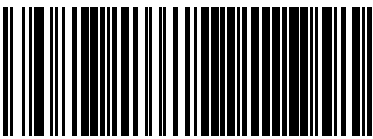
NOTE: Unlike some other programming features and options, interface selections require that you scan only one programming bar code label. DO NOT scan an ENTER/EXIT bar code prior to scanning an interface selection bar code.
Some interfaces require the scanner to start in the disabled state when powered up. If additional scanner configuration is desired while in this state, pull the trigger and hold for 5 seconds. The scanner will change to a state that allows programming with bar codes.

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

IBM
IBM-46xx Port 5B reader interface  Select IBM-P5B
IBM-46xx Port 9B reader interface  Select IBM-P9B

USB Interface

The reader attaches directly to a USB host, or a powered USB hub, and is powered by it. No additional power supply is required. When using a USB interface, the reader auto-detects the USB cable and defaults to the USB keyboard interface.

USB
 Select USB Keyboard (with standard key encoding)
 Select USB-COM-STD (simulates RS-232 standard interface)

USB (CONTINUED)

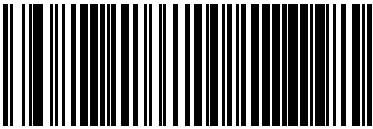
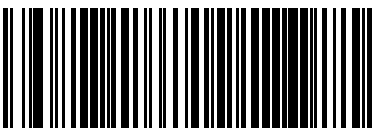
Select USB Alternate Keyboard (with alternate key encoding)

Select USB-OEM

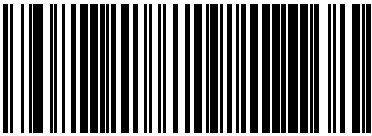
Select USB-KBD-APPLE (for Apple computers)

Keyboard Wedge Interface

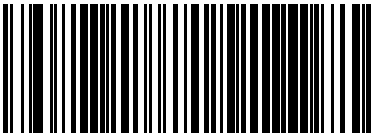
To use a Keyboard Wedge interface, scan the bar code for the desired keyboard type.

KEYBOARD
 **Select KBD-AT** **(AT, PS/2 25-286, 30-286, 50, 50Z, 60, 70, 80, 90 & 95 w/Standard Key Encoding)**
 **Select KBD-AT-NK** **(IBM AT PS2 with standard key encoding but without external kbd.)**
 **Select KBD-AT-ALT** **(AT, PS/2 25-286, 30-286, 50, 50Z, 60, 70, 80, 90 & 95 w/Alternate Key)**
 **Select KBD-AT-ALT-NK** **(for IBM AT PS2 with alternate key encoding but without external keyboard)**

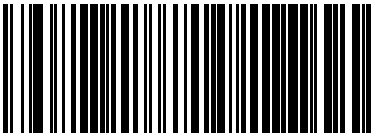
KEYBOARD (CONTINUED)



Select KBD-XT
(PC/XT w/Standard Key Encoding)

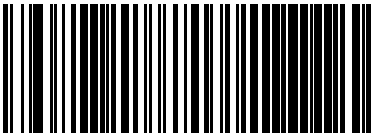


Select KBD-IBM-3153
(for IBM Terminal 3153)



Select KBD-IBM-M
(for IBM Terminals 31xx, 32xx, 34xx, 37xx make only keyboard)

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



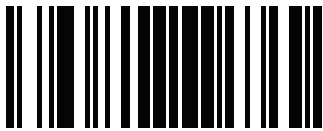
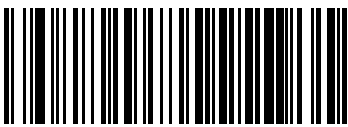
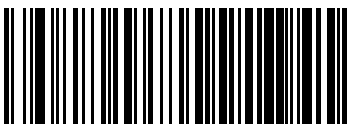
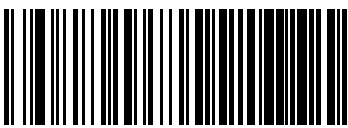
Select KBD-DIG-VT
(for DIGITAL Terminals VT2xx, VT3xx, VT4xx)

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

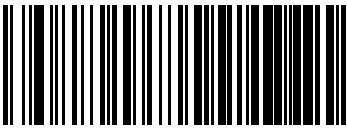
All other interfaces support ONLY the following Country Modes: U.S., Belgium, Britain, France, Germany, Italy, Spain, Sweden.

COUNTRY MODE
 ENTER/EXIT PROGRAMMING MODE
 Country Mode = U.S.
 Country Mode = Belgium
 Country Mode = Britain

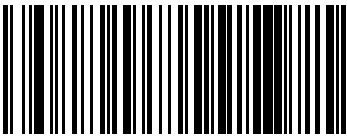
COUNTRY MODE (CONTINUED)

Country Mode = Croatia*

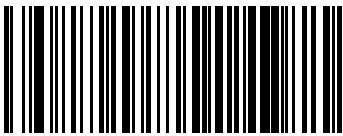
Country Mode = Czech Republic*



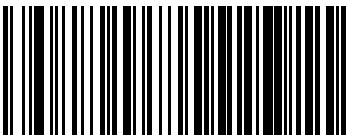
Country Mode = Denmark*



Country Mode = France



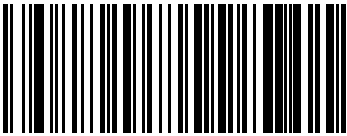
Country Mode = French Canadian



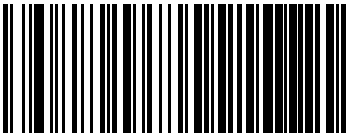
Country Mode = Germany

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

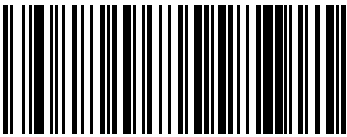
COUNTRY MODE (CONTINUED)



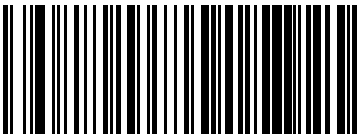
Country Mode = Hungary*



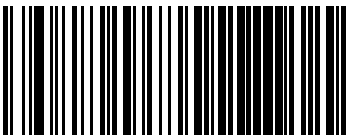
Country Mode = Italy



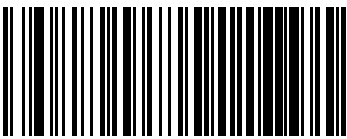
Country Mode = Japanese 106-key*



Country Mode = Lithuanian



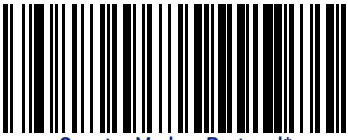
Country Mode = Norway*



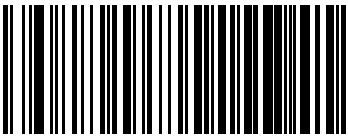
Country Mode = Poland*

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

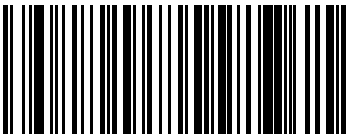
COUNTRY MODE (CONTINUED)



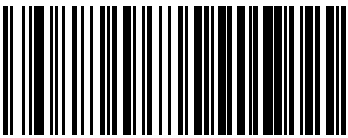
Country Mode = Portugal*



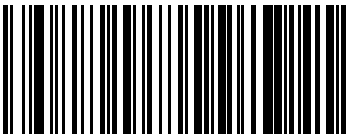
Country Mode = Romania*



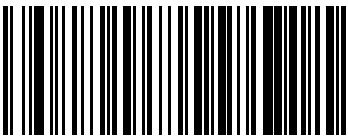
Country Mode = Slovakia



Country Mode = Spain



Country Mode = Sweden



Country Mode = Switzerland*

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

PROGRAMMING

The reader is factory-configured with a set of standard default features. After scanning the interface bar code from the Interfaces section, select other options and customize your reader through use of the programming bar codes available in the Gryphon™ I GBT/GM4200 PRG. Check the corresponding features section for your interface, and also the Data Editing and Symbologies chapters of the PRG.

Using Programming Bar Codes

This manual contains bar codes which allow you to reconfigure your reader. Some programming bar code labels, like the "Reset Default Settings" on page 25, require only the scan of that single label to enact the change.

Other bar codes require the reader to be placed in Programming Mode prior to scanning them. Scan an ENTER/EXIT bar code once to enter Programming Mode; scan the desired parameter settings; scan the ENTER/EXIT bar code again to accept your changes, which exits Programming Mode and returns the reader to normal operation.

Configure Other Settings

Additional programming barcodes are available in the PRG to allow customization of programming features. If your installation requires different programming than the standard factory default settings, refer to the PRG.

Resetting Product Defaults

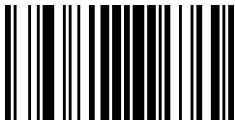
If you are not sure what programming options have been set in your reader, or you have changed some options and want your custom factory settings restored, scan the bar code below to reset the reader to its initial configuration. Refer to the PRG for other options, and a listing of standard factory settings.

NOTE: Factory defaults are based on the interface type. Be sure your reader is configured for the correct interface before scanning this label. See "Selecting the Interface Type" on page 15 for more information.

Reset Default Settings

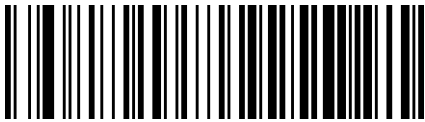
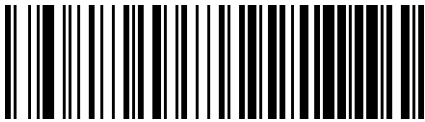
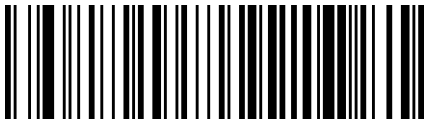
NUMLOCK

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.

NUMLOCK
 ENTER/EXIT PROGRAMMING MODE
 ♦ Numlock = Numlock key unchanged
 Numlock = Numlock key toggled
♦ = default value

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.

CAPS LOCK STATE
 ENTER/EXIT PROGRAMMING MODE
 ♦ Caps Lock OFF
 Caps Lock ON
 AUTO Caps Lock Enable
♦ = default value

READING PARAMETERS

Move the reader toward the target and center the aiming pattern and illumination system to capture and decode the image. See “Using the GBT/GM4200” on page 8" for more information.

The aiming system will briefly switch off after the acquisition time, and if no code is decoded will switch on again before the next acquisition. The illuminator will remain on until the symbol is decoded.

As you read code symbols, adjust the distance at which you are holding the reader.

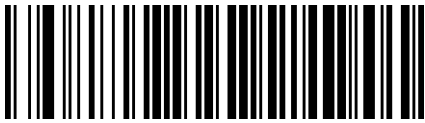
GOOD READ GREEN SPOT DURATION

Successful reading can be signaled by a good read green spot. Use the bar codes that follow to specify the duration of the good read pointer beam after a good read.

GOOD READ GREEN SPOT DURATION
 ENTER/EXIT PROGRAMMING MODE
 Disabled
 ♦ Short (300 ms)

GREEN SPOT DURATION (CONTINUED)

Medium (500 ms)



Long (800 ms)

♦ = default value

OPERATING MODES

Scan Mode

The reader can be set to operate in one of several scanning modes. See the PRG for more information and settings for any of the following options:

Trigger Single (Default) This mode is associated with the typical handheld reader operation. When the trigger is pulled, illumination is turned on and the scanner attempts to read a label.

Scanning is activated until one of the following occurs:

- the programmable "maximum scan on time"[1] has elapsed
- a label has been read
- the trigger is released

Trigger Pulse Multiple - Scanning begins when the trigger is pulled and continues after the trigger is released, until the trigger is pulled again or until the programmable "maximum scan on time"[1] has elapsed. Reading a label does not disable scanning. Double Read Timeout[1] prevents undesired multiple reads while in this mode.

Trigger Hold Multiple - When the trigger is pulled, scanning starts and the product scans until the trigger is released or "maximum scan on time"[1] has elapsed. Reading a label does not disable scanning. Double Read Timeout[1] prevents undesired multiple reads while in this mode.

Always On - The illuminator is always ON and the reader is always ready for code reading. Double Read Timeout[1] prevents undesired multiple reads.

Flashing - The reader illuminator flashes on and off regardless of the trigger status. Code reading takes place only during the Flash On[2] time. Double Read Timeout[1] prevents undesired multiple reads.

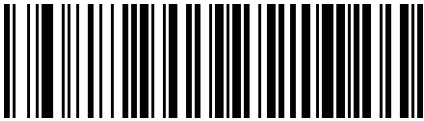
Object Detection - The scanner looks for changes within its field-of-view. The Aiming Pattern is always on to show the optimum reading area. If a predefined amount of movement is detected, the red illumination switches on. Scanning continues until a label is read or "maximum scan on time"[1] is reached.

1. See the Product Reference Guide (PRG) for these and other programmable features.
2. Controlled by Flash On Time and Flash Off Time. Use the PRG to program these options.

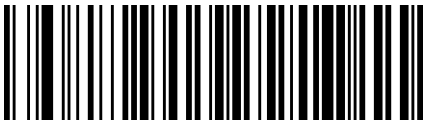
SCAN MODE

ENTER/EXIT PROGRAMMING MODE

♦ Trigger Single

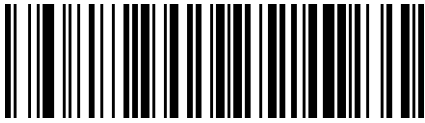
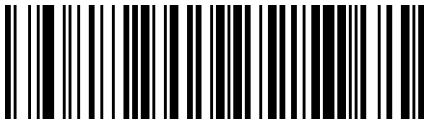


Trigger Pulse Multiple



Trigger Hold Multiple

♦ = default value

SCAN MODE (CONTINUED)
 Flashing
 Always ON
 Stand Mode

TECHNICAL SPECIFICATIONS

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

PHYSICAL CHARACTERISTICS	
Color	Black White
Dimensions	Gun only (L/H/P): 68.4 x 165.8 x 110.0mm (2.7" x 6.5" x 4.3") Cradle only (L/H/P): 203.3 x 84 x 94mm (8,0" x 3,3" x 3,7") Gun on Cradle (L/H/P): 203,3 x 84 x 107,3mm (8,0" x 3,3" x 4,2")
Weight	GBT/GM4200: approx. 175g (6.2 oz.) without battery / approx. 230g (8.11 oz.) with battery WLC4190: approx. 232g (8.2 oz.)
ELECTRICAL CHARACTERISTICS	
Power Supply (WLC4190)	4.5VDC - 14VDC ± 5%
Consumption (Typical)	Gun Only: 750mA Cradle Only: 70mA Cradle with Gun in Charge 380mA (PC host USB) 1030mA @ 5V host Type-C 400mA @ 12V on USB external powered cable
Max. Scan Rate	400 reads/sec
Reading Indicators	Top and rear illumination, Good Read Spot, Beep
Battery Capacity	Li-Ion 3.6V, 2550 mAh (9.2W/h)
Recharge Time (Typical)	Values valid for a fully depleted battery USB Only: 10h Type C: 4.5h USB external power: 4h

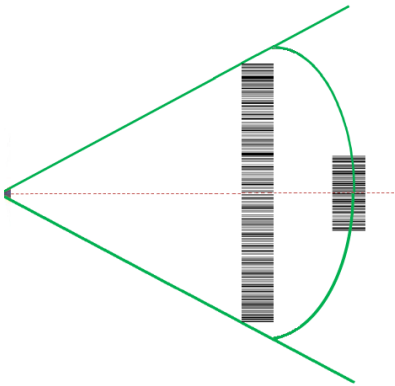
ENVIRONMENTAL CHARACTERISTICS	
Operating Temperature	0 °C to + 50 °C (+32° F to +122 °F)
Storage Temperature	-40 °C to + 70 °C (-40 ° F to +158 °F)
Humidity	95% non condensing
Drop Resistance	IEC 68-2-32 Tested 1.8 m (6 ft)
ESD Protection	16 KV
Protection Class	IP52
Cable Length	Refer to www.datalogic.com

OPTICAL CHARACTERISTICS	
Optical Format	CCD solid state sensor (2500 pixels)
Illumination System	LED Source Dual LED Array 612-630nm
Ambient Light	Up to 130,000 lux
Tilt Tolerance[a]	+/- 45°
Pitch Tolerance[a]	± 65°
Skew Tolerance[a]	± 65°
Field of View[a]	HORIZONTAL 36° +/- 1°
PCS (Datalogic Test Chart)	minimum 15%

a. Based on ISO 15423 specifications.

READING CHARACTERISTICS	
DOF[a]	Code 39 5mils: 50 to 370mm / 1.97 to 14.6 inch[b]
	Code 39 7.5mils: 50 to 540mm / 1.97 to 21.3 inch[b]
	Code 39 10mils: 50 to 735mm / 1.97 to 28.9inch[b]
	Code 39 20mils: 25 to 1470mm / 0.98 to 57.87 inch[b]
	EAN13 13 mils: 35 to 900mm / 1.38 to 35.43 inch[b]
Resolution (Maximum)	0.0077mm /3mils

a. The depth of field is defined by an arc and not a plane. Shorter bar codes of a given resolution can be read at a further distance than longer bar codes (as explained in the following image).
b. All labels grade A, typical environmental light, 20°C, label inclination 10°.



DECODE CAPABILITY

1D Bar Codes

UPC/EAN/JAN (A, E, 13, 8); UPC/EAN/JAN (including P2 /P5); UPC/EAN/JAN (including; ISBN / Bookland & ISSN); UPC/EAN Coupons; Code 39 (including full ASCII); Code 39 Trioptic; Code39 CIP (French Pharmaceutical); LOGMARS (Code 39 w/ standard check digit enabled); Danish PPT; Code 32 (Italian Pharmacode 39); Code 128; Code 128 ISBT; Interleaved 2 of 5; Standard 2 of 5; Interleaved 2 of 5 CIP (HR); Industrial 2 of 5; Discrete 2 of 5; Datalogic 2 of 5 (China Post Code/Chinese 2 of 5); IATA 2of5 Air cargo code; Code 11; Codabar; Codabar (NW7); ABC Codabar; Code 93; MSI; PZN; Plessey; Anker Plessey; Follet 2 of 5; GS1 DataBar Limited; GS1 DataBar Expanded; GS1 DataBar Truncated; DATABAR Expanded Coupon.

LED AND BEEPER INDICATIONS

The reader's beeper sounds and its illumination flashes or changes color to indicate various functions or errors on the reader. A "Green Spot" also lights to indicate a good read. The tables below list these indications. Refer to the PRG for a more detailed list.

INDICATION	LED	BEEPER
Power-up	Upper LED flashes/ blinks on power-up, however, this may be too rapid to view. With a USB interface, the LED blinks until enumeration with the host is completed.	Reader beeps four times at highest frequency and volume upon power-up.
Good Read	Upper green LED comes on for programmed time (default). LED behavior for this indication is configurable using Aladdin utility.	One beep at current frequency, volume, mono/bi-tonal setting upon a successful label scan. It is also possible to upload custom jingles with Aladdin.
ROM Failure	200ms on / 200ms off	Reader sounds one error beep at highest volume for 200 mS.
Limited Scanning Label Read	N/A	Reader 'chirps' six times at the highest frequency and current volume.
Reader Disabled	The LED blinks continuously 100mS on / 900 mS off	N/A

TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	POSSIBLE SOLUTION
Nothing happens when the scan button is pulled.	No power to the reader.	Check system power. Ensure power supply is connected.
	Interface or power cables are loose.	Ensure all cable connections are secure.
LED comes on, but bar code is not decoded.	Reader not programmed for correct bar code type.	Ensure reader is programmed to read the type of bar code scanned. Refer to the PRG for more information.
	Bar code label is unreadable.	Check the label to ensure it is not defaced. Try to scan another bar code type.
	Distance between reader and bar code is incorrect.	Move reader closer to or further from the bar code.
Bar code is decoded but not transmitted to the host.	Reader not programmed for the correct host type.	Scan the appropriate host type bar code. Refer to the PRG for more information.
Nothing happens when the reader is on the cradle (start-up, blinking LEDs, charging). **NOTE**: Follow the procedure illustrated on page 9 to correctly replace/ connect the battery pack.	Foreign objects placed on the base surface causing an incorrect positioning of the reader.	Remove all foreign objects and keep the base surface free.

WARRANTY

Datalogic warrants that the Products shall be free from defects in materials and workmanship under normal and proper use during the Warranty Period. 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. The Warranty Period shall be **three years** from the date of shipment by Datalogic, unless otherwise agreed in an applicable writing by Datalogic.

Datalogic will not be liable under the warranty if the Product has been exposed or subjected to any: (1) maintenance, repair, installation, handling, packaging, transportation, storage, operation or use that is improper or otherwise not in compliance with Datalogic's instruction; (2) Product alteration, modification or repair by anyone other than Datalogic or those specifically authorized by Datalogic; (3) accident, contamination, foreign object damage, abuse, neglect or negligence after shipment to Buyer; (4) damage caused by failure of a Datalogic-supplied product not under warranty or by any hardware or software not supplied by Datalogic; (5)any device on which the warranty void seal has been altered, tampered with, or is missing; (6) 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; (7) use of counterfeit or replacement parts that are neither manufactured nor approved by Datalogic for use in Datalogic-manufactured Products; (8) any damage or malfunctioning caused by non-restoring action as for example firmware or software upgrades, software or hardware reconfigurations etc.; (9) loss of data; (10) any consumable or equivalent (e.g. cables, power supply, batteries, etc.); or (11) any device on which the serial number is missing or not recognizable.

THE DATALOGIC WARRANTIES ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, WHETHER WRITTEN, EXPRESS, IMPLIED, STATUTORY OR OTHERWISE, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE. DATALOGIC SHALL NOT BE LIABLE FOR ANY DAMAGES SUSTAINED BY BUYER ARISING FROM DELAYS IN THE REPLACEMENT OR REPAIR OF PRODUCTS UNDER THE ABOVE. THE REMEDY SET FORTH IN THE WARRANTY STATEMENT IS THE BUYER'S SOLE AND EXCLUSIVE REMEDY FOR WARRANTY CLAIMS. NO EXTENSION OF THIS WARRANTY WILL BE BINDING UPON DATALOGIC UNLESS SET FORTH IN WRITING AND SIGNED BY DATALOGIC'S AUTHORIZED REPRESENTATIVE. DATALOGIC'S LIABILITY FOR DAMAGES ON ACCOUNT OF A CLAIMED DEFECT IN ANY PRODUCT DELIVERED BY DATALOGIC SHALL IN NO EVENT EXCEED THE PURCHASE PRICE OF THE PRODUCT ON WHICH THE CLAIM IS BASED. DATALOGIC SHALL NOT BE LIABLE FOR DAMAGES RELATING TO ANY INSTRUMENT, EQUIPMENT, OR APPARATUS WITH WHICH THE PRODUCT SOLD UNDER THIS AGREEMENT IS USED. Further details on warranty coverage, rights and conditions are addressed under and regulated by the Terms and Conditions of Sales of Datalogic available at https://www.datalogic.com/terms_conditions_sales.

ERGONOMIC RECOMMENDATIONS

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

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

TECHNICAL SUPPORT

Support Through the Website

Datalogic provides several services as well as technical support through its website. Log on to (www.datalogic.com).

For quick access, from the home page click on the search icon 🔍, and type in the name of the product you're looking for. This allows you access to download Data Sheets, Manuals, Software & Utilities, and Drawings.

Hover over the Support & Service menu for access to Services and Technical Support.

Reseller Technical Support

An excellent source for technical assistance and information is an authorized Datalogic reseller. A reseller is acquainted with specific types of businesses, application software, and computer systems and can provide individualized assistance.

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.

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

CAUTION: DO NOT use abrasive pads or cleaning agents.

Common Cleaning Solutions

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

PRODUCT	CHEMICAL CONTENT
Sani-Cloth® HB, Sani-Cloth® Plus, Super Sani-Cloth®	Quaternary Ammonium Chloride solution
Hepacide Quat II	Virucidal disinfectant cleaner
Alcohol Wipes	70% Isopropyl Alcohol
CaviWipes™	Isopropanol 10-20%; Ethylene Glycol Monobutyl Ether 1-5%
Virex® 256	n-Alkyl Dimethyl Benzyl Ammonium Chloride; Didecyl Dimethyl Ammonium Chloride
Formula 409® Glass and Surface Cleaner	n-Alkyl Dimethyl Benzyl Ammonium Chloride; n-Propoxypropanol
Windex® Blue	Isopropyl Alcohol
Clorox® Bleach; Clorox Healthcare Bleach Germicidal Cleaner	Sodium Hypochlorite; Sodium Hydroxide
Hydrogen Peroxide	3%
ProSpray™ Wipes (Disinfectant towelettes}	0.647% o-phenylphenol; 0.070% o-benzyl-p-chlorophenol
100% Gentle dish soap and water	

NOTE: Standard product enclosures are resistant to harsh chemical cleaning.

CAUTION: DO NOT spray or pour cleaner directly onto the unit.
DO NOT use solutions in their concentrated form.
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.

2. Use the cloth to wipe down the surface of the unit. Use cotton swabs, lightly moistened, to reach in corners and crevices.

3. Use another clean dry cloth to remove any residue of the cleaning agent and ensure the unit is dry.

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.

The LEDs on the base (shown in Table 1) will indicate the status of the battery.

NOTE: The Gryphon GBT/GM4200 may get warm during charging: this is normal and does not mean a malfunction.

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 perform 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.

WARNING: Fire or explosion hazard if battery is replaced with an incorrect model.

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 battery types, 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 to 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 other laws and regulations about the environment.

DATALOGIC

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