GRYPHON™
M SERIES READERS

Quick Reference

Installazione Rapida

Manuel d'Installation Rapide

Schnellinstallation

Manual de Instalación Rápida

DATALOGIC
Bar Code & More

DATALOGIC S.p.A.,
Via Candini, 2
40012 - Lippo di Calderara
Bologna - Italy

CE

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declares that the
déclare que le
bescheinigt, daß das Gerät
declare que el

GRYPHON M100, Cordless bar code reader
GRYPHON M200, Cordless bar code reader

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 entsprechen:
cumple con los requisitos de las Directivas del Consejo Europeo, según la lista siguiente:

1999/5/EEC R&TTE

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:

EN 60950, October 1996:	SAFETY OF INFORMATION TECHNOLOGY EQUIPMENT, INCLUDING ELECTRICAL BUSINESS EQUIPMENT
ETS 300 683, June 1997:	RADIO EQUIPMENT AND SYSTEMS (RES); ELECTROMAGNETIC COMPATIBILITY (EMC) STANDARD FOR SHORT RANGE DEVICES (SRD) OPERATING ON FREQUENCIES BETWEEN 9 KHZ AND 25 GHZ
ETS 300 220-1, November 1997:	ELECTROMAGNETIC COMPATIBILITY AND RADIO SPECTRUM MATTERS (ERM); SHORT RANGE DEVICES; TECHNICAL CHARACTERISTICS AND TEST METHODS FOR RADIO EQUIPMENT TO BE USED IN THE 25 MHZ TO 1000 MHZ FREQUENCY RANGE WITH POWER LEVELS RANGING UP TO 500 MW; PART 1: PARAMETERS

Lippo di Calderara, 13.03.2001

Ruggero Cacioppo
Ruggero Cacioppo
Quality Assurance Supervisor

CE0523 (!)

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PRELIMINARY

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GRYPHON™

M SERIES READERS

Quick Reference

SERVICES AVAILABLE AT OUR WEB SITE:

By completing the electronic form at our website, **www.datalogic.com/hhd/gryphon_utilities.htm**, you have free access to download the following items:

- **WinSetPlus™**
  WinSetPlus™ is a Windows-based utility program which allows device configuration using a PC. It provides RS232 interface configuration as well as configuration barcode printing.

- **Loader:**
  The Loader utility program is necessary to load the application software (upgrades) onto your reader.

- **Software Upgrades:**
  Future software upgrades allow your reader to be updated with the latest improvements.

These items are also available from your local Datalogic distributor.

USING GRYPHON™ READERS

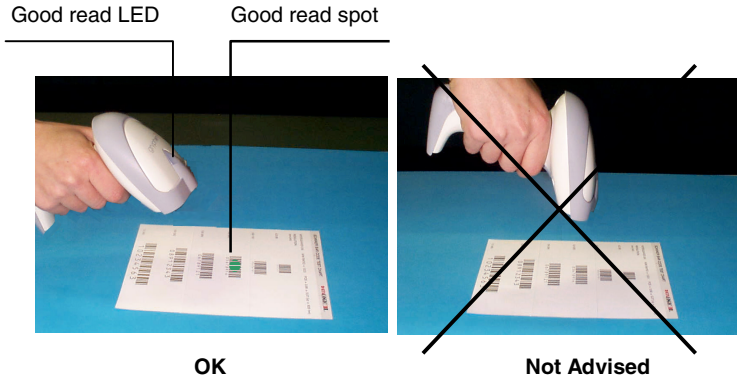
The Gryphon™ M series reader, paired with an OM-GRYPHON cradle, builds a Cordless Reading System for the collection, decoding and transmission of barcoded data.

GRYPHON™ readers automatically scan barcodes **at a distance**. Simply aim and pull the trigger. Code scanning is performed along the center of the light bar emitted from the reading window. This bar must cover the entire code.

READING ANGLE

Successful scanning is obtained by tilting the reader with respect to the barcode to avoid direct reflections which impair the reading performance, see the figure below.

Successful reading is obtained by an audible tone plus a good-read green spot.



To start using your Gryphon™ reading system you must:

1. Connect an OM-GRYPHON cradle to the Host. For installation and connection information see the OM-GRYPHON Quick Reference Manual.

2. Charge the Gryphon™ battery using an OM-GRYPHON / C-GRYPHON charger as described in this Quick Reference manual. A full charge takes 3 hours with NiMh battery models.

3. Configure the reader as described in this Quick Reference manual.

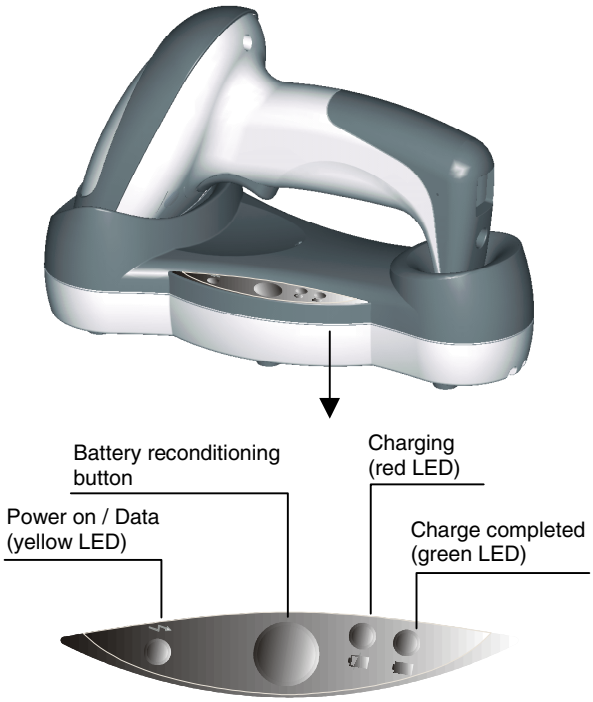
4. Configure the OM-GRYPHON cradle. See OM-GRYPHON Configuration in the “OM-GRYPHON Quick Reference manual”.

CHARGING THE BATTERIES

Once the OM-GRYPHON is connected and powered, the yellow LED goes on, then you can charge the reader's batteries.

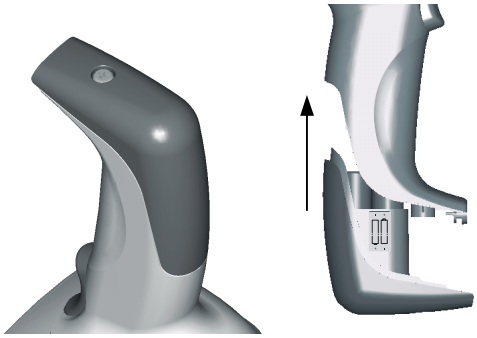
Place the Gryphon™ into the OM-GRYPHON cradle. The red charging LED on the cradle goes on.

The battery is completely charged when the green LED on the cradle goes on (see below).



After many recharging cycles NiMh and NiCd batteries may tend to lose their operating autonomy. This condition can be overcome by inserting the Gryphon™ into the OM-GRYPHON / C- GRYPHON charger and pressing the "battery reconditioning" button.

When the above procedure is no longer effective, the batteries must be changed. To change the batteries of your reader, unscrew the battery cover screw, replace the old batteries with new ones, then insert the cover in the handle and screw it back into place. (See the following figures).



CAUTION

Risk of explosion if battery is replaced with an incorrect type.
Dispose of the batteries as required by the relevant laws in force.

GRYPHON™ CONFIGURATION

When the cradle is connected and powered, configure the Gryphon™ by reading the following codes in the given sequence and follow the instructions.

Note: for the numeric code selection of step 3, use the table at the end of this Quick Reference.

1. **Restore Gryphon™ default**

2. **Enter configuration**

3. **Set Radio Address**

+

four digits for the Gryphon™ Address
(from 0000 to 1999).

All readers used in the same area must have different addresses.

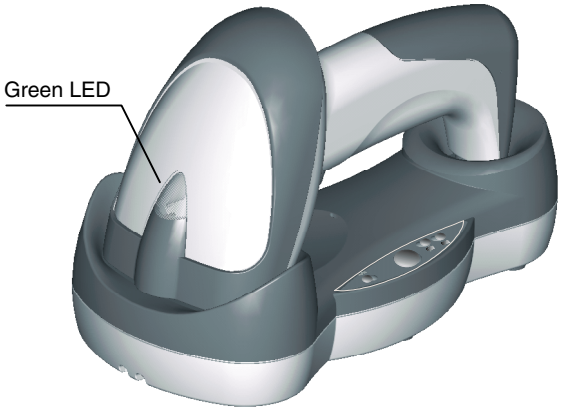
4. **Exit and Save configuration**

5. Read the **Bind** code to pair the Gryphon™ to the cradle.
The reader is dedicated to the cradle. Any previously **bound** reader will be excluded.

Bind

The green LED on the Gryphon™ will go on: the reader is ready to be inserted into the cradle.

6. Firmly insert the reader into the cradle, a beep will be emitted, signalling that the OM-GRYPHON cradle has been paired to the Gryphon™, and the green LED on the reader will go off.



YOUR READER IS NOW CONFIGURED TO READ BARCODES USING THE DEFAULT VALUES.

7. Configure the OM-GRYPHON cradle, refer to the “OM-GRYPHON Quick Reference”.

GRYPHON™ DEFAULT CONFIGURATION

POWER SAVE

scan rate 270 scans/s

READING PARAMETERS

operating mode hand-held, hardware trigger, trigger active level, no timeout, Flash On = 1 sec, Flash Off = .6 sec, one read per cycle, safety time .5 sec, beeper intensity high, tone 2, beeper type monotone, beeper length short, good read spot duration medium

DECODING PARAMETERS

ink spread enabled, overflow control enabled, interdigit control enabled, Puzzle Solver™ disabled, decoding safety = one read

READER OPERATING PARAMETERS

code identifier disabled

CODE SELECTION

enabled codes

M200	Code PDF417
M100 **M200**	EAN 8/EAN 13 / UPC A/UPC E without ADD ON check digit transmitted, no conversions Interleaved 2/5 check digit control and transmission, variable length code; 4-99 characters Standard Code 39 no check digit control, variable length code; 1-99 characters Code 128

disabled codes

M100 **M200**	*EAN 128, ISBT128, Code 93, Codabar, pharmaceutical codes, Codablock-A, Codablock-F Standard and EAN, MSI, Plessey, Telepen, Delta IBM, Code 11, Code 16K, Code 49*

ADVANCED FORMATTING PARAMETERS

concatenation disabled, no advanced formats defined

TECHNICAL FEATURES

Electrical Features		
Battery Type	2 AA NiMh* batteries 1.2 V – 1400 mAh	
Time of recharge NiMh	3 hours max	
Operating autonomy (typ. continuous reading)	6.000 reads - NiMh	
Indicators	LED, Good Read Spot, Beeper	
Optical Features		
Sensor	CCD solid state (3648 pixels)	
Max scan rate	270 scans/sec	
Reading field	see reading diagram (p.47)	
Max. resolution	0.076 mm, 3 mils	
PCS minimum	15% (Datalogic Test Chart)	
Radio Features	**European Models**	**USA Models**
Working frequency	433.92 Mhz	910 MHz
Bit rate	19200 baud	36800 baud
Effective Radiated Power	<10 mW	<1 mW
Range (in open air)	30 m.	15 m.
RF Modulation	FSK	
Max. number of devices in the same reading area	2000	
Environmental Features		
Working Temperature	0 °C to + 40 °C	
Storage Temperature (without battery)	-20 °C to + 70 °C	
Humidity	90% non condensing	
Drop resistance	IEC 68-2-32 Test ED	
Protection class	IP30	
Mechanical Features		
Weight (with batteries)	about 280 g.	
Dimensions	179 x 81 x 98 mm	
Material	ABS and Polycarbonate molded with rubber	

* It is possible to employ also NiCd or non-chargeable Alkaline AA batteries.

WARRANTY

Datalogic warranties this product against defects in workmanship and materials, for a period of 24 months from the date of shipment, provided that the product is operated under normal and proper conditions.

Datalogic has the faculty to repair or replace the product, these provisions do not prolong the original warranty term.
The warranty does not apply to any product that has been subject to misuse, accidental damage, unauthorized repair or tampering.

PATENTS

This product is licensed under one or more of the following U.S. patents:

4,282,425; 4,570,057; 4,766,300; 4,894,523; 5,021,642; 5,038,024; 5,081,343; 5,095,197; 5,144,119; 5,144,121; 5,182,441; 5,187,355; 5,187,356; 5,218,191; 5,233,172; 5,258,606 and /or 5,288,985

This product is covered by one or more of the following patents and patent applications:

US 5,917,176; US 5,992,740; US 6,010,073;
US pat. Appl. 99US-320.643; US pat. Appl. 99US-362.988;
US pat. Appl. 98US-126.606; EP pat. Appl. 00EP-830.127;
EP pat. Appl. 00EP-830.122; EP pat. Appl. 98EP-830.336;
EP pat. Appl. 98EP-830.611; EP pat. Appl. 97EP-200.317;
EP pat. Appl. 97EP-830.408; EP pat. Appl. 96EP-830.473;
EP pat. Appl. 96EP-830.660; EP pat. Appl. 96EP-830.439

INFORMATION TO THE USERS

This device must be opened by qualified personnel only.

The batteries must be removed before opening the device.

Modifications or changes to this equipment without the expressed written approval of Datalogic could void the authority to use the equipment.

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 which may cause undesired operation.

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/TV technician for help.

Contact the competent authority responsible for the management of radio frequency devices of your country to verify the eventual necessity of a user license.
Refer to the web site http://europa.eu.int/comm/enterprise/rtte/spectr.htm for further information.

LED CLASS

CLASS1 LED
EN60825-1/LED11 1996