Gryphon™ MxOO

Quick Reference

DATALOGIC

Gryphon™ Mx00 Readers

QUICK REFERENCE

DATALOGIC

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

Gryphon™ Mx00 Readers

Ed.: 05/2006

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UPDATES AND LANGUAGE AVAILABILITY

UK/US

The latest drivers and documentation updates for this product are available on Internet.
Log on to : www.datalogic.com

I

Su Internet sono disponibili le versioni aggiornate di driver e documentazione di questo prodotto. Questo manuale è disponibile anche nella versione italiana.
Collegarsi a : www.datalogic.com

F

Les versions mises à jour de drivers et documentation de ce produit sont disponibles sur Internet. Ce manuel est aussi disponible en version française.
Cliquez sur : www.datalogic.com

D

Im Internet finden Sie die aktuellsten Versionen der Treiber und Dokumentation von diesem Produkt. Die deutschsprachige Version dieses Handbuches ist auch verfügbar.
Adresse : www.datalogic.com

E

En Internet están disponibles las versiones actualizadas de los drivers y documentación de este producto. También está disponible la versión en español de este manual.
Dirección Internet : www.datalogic.com

USING GRYPHON™ M SERIES READERS

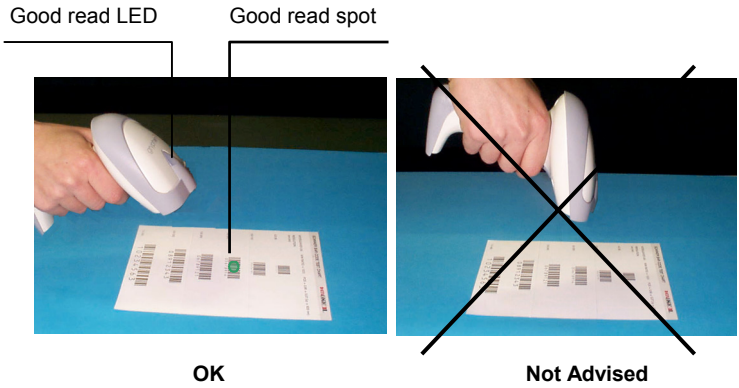
The Gryphon™ M series reader, paired with an OM-Gryphon™ cradle, builds a Cordless Reading System for the collection, decoding and transmission of barcoded data.

Gryphon™ M 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™ M 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™ M battery using an OM-Gryphon™ / C-Gryphon™ charger as described in this Quick Reference manual. A full charge takes 3.5 hours with NiMh battery models.

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

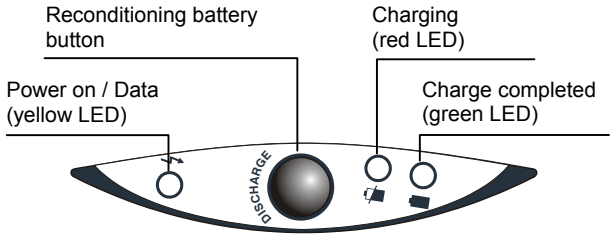
4. Configure the OM-Gryphon™ cradle. See OM-Gryphon™ Configuration in the “OM-Gryphon™ Quick Reference”.

CHARGING THE BATTERIES

By placing the reader onto the OM-Gryphon™ cradle or C-Gryphon™ battery charger it is possible to charge the Gryphon™ M batteries. Make sure the charging LED goes on.

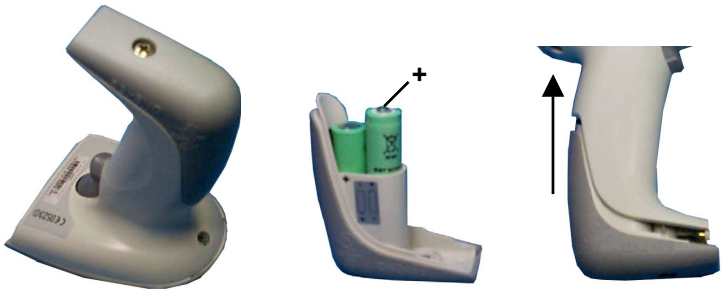
The LEDs positioned on the cradle signal the charge status, as described in the following table:

	LED	STATUS
	Power on / Data	Yellow On = OM-Gryphon™ is powered. Yellow Blinking = OM-Gryphon™ receives data and commands from the Host or the reader.
	Charging	Red On = the battery charge is in progress. Red Blinking = the battery reconditioning 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 reader.



After many recharging cycles NiMh and NiCd batteries may tend to lose their operating autonomy. This condition can be overcome by positioning the Gryphon™ M onto 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).



WARNING ***Do not incinerate, disassemble, short terminals or expose to high temperature. Risk of fire, explosion. Use specified charger only. Risk of explosion if the battery is replaced by an incorrect type. Dispose of the batteries as required by the relevant laws in force.***

GRYPHON™ M CONFIGURATION

When the OM-Gryphon™ cradle is connected and powered, configure the Gryphon™ M 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™ M default

2. Enter configuration

3. Set Radio Address

+

four digits for the Gryphon™ M 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™ M to the OM-Gryphon™ cradle.

The reader is dedicated to the cradle. Any previously **bound** reader will be excluded.

To connect several readers to the same cradle see the following section "Using Multiple Readers with Same Cradle".

Bind

The green LED on the Gryphon™ M will blink: the reader is ready to be positioned onto the cradle.

6. Firmly position the reader onto the cradle within 10 seconds, a beep will be emitted, signaling that the OM-Gryphon™ cradle has been paired to the Gryphon™ M, and the green LED on the reader will go off.

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

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

USING MULTIPLE READERS WITH SAME CRADLE

If you want to use several readers associated with the same cradle, you must first **Bind** the cradle with one of the readers (see previously described configuration procedure).

Successive readers can be associated with the same cradle by following the configuration procedure substituting the **Bind** command with **Join**.

5. Join

The green LED on the Gryphon™ M will blink: the reader is ready to be positioned onto the cradle. **Complete step 6.**

CAUTION

*If the cradle is not **Bound** to a reader, its address assumes a random value which can cause conflicts and malfunctions to other cradles within its range.*

GRYPHON™ M DEFAULT CONFIGURATION

DATA FORMAT
code identifier disabled (enabled for POS terminals), field adjustment disabled, code length tx not transmitted, character replacement disabled
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 = 0.6 sec, one read per cycle, safety time 0.5 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

CODE SELECTION

Enabled codes

- Code PDF417 (only Gryphon™ 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
  variable length code; 1-99 characters

Disabled codes for M100 only:

EAN 128, ISBT128, Code 93, Codabar, pharmaceutical codes, MSI, Plessey, Telepen, Delta IBM, Code 11, Code 16K, Code 49, RSS Codes

Disabled codes for M200 only:

EAN 128, ISBT128, Code 93, Codabar, pharmaceutical codes, RSS Codes

ADVANCED FORMATTING PARAMETERS

concatenation disabled, no advanced formats defined

RADIO PARAMETERS

radio protocol timeout = 2 seconds, power-off timeout = 4 hours, single store disabled, beeper control for radio response = normal.

TECHNICAL FEATURES

Gryphon™ Mx00

Electrical Features		
Battery Type	2 AA NiMh* batteries 1.2 V – 1400 mAh	
Time of recharge NiMh	3.5 hours	
Operating autonomy (typ. continuous reading)	25,000 reads - NiMh	
Indicators	LED, Good Read Spot, Beeper	
Max scan rate	270 scans/sec	
Optical Features		
Sensor	CCD solid state (3648 pixels)	
Illuminator Wavelength Max. LED Output Power	LED array 630 ~ 670 nm 0.33 mW	
Reading field	see reading diagram	
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	< 1mW
Range (in open air)	30 m	15 m
RF Modulation	FSK	
System Configuration	**OM-GRYPHON™**	**STARGATE™**
Maximum number of devices per base stations	16	255
Max. number of devices in the same reading area	2000	
Environmental Features		
Working Temperature	32° to 104 °F	
Storage Temperature (without battery)	- 4° to 158 °F	
Humidity	90% non condensing	
Drop resistance	IEC 68-2-32 Test ED	
Protection class	IP30	
Mechanical Features		
Weight (with batteries)	about 9.87 oz	
Dimensions	7.04 x 3.18 x 3.85 in	
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.

SERVICES AND SUPPORT

Datalogic provides several services as well as technical support through its website. Log on to **www.datalogic.com** and click on the links indicated for further information including:

- **PRODUCTS**

  Search through the links to arrive at your product page where you can download specific **Manuals** and **Software & Utilities** including:

  - **DL Sm@rtSet™** a Windows-based utility program which allows device configuration using a PC. It provides RS232 interface configuration as well as configuration barcode printing.

- **SERVICES & SUPPORT**

  - **Datalogic Services** - Warranty Extensions and Maintenance Agreements
  - **Authorised Repair Centres**

- **CONTACT US**

  E-mail form and listing of Datalogic Subsidiaries

PATENTS

This product is licensed under the following U.S. patent:
6,158,661

This product is covered by one or more of the following patents:
U.S. patents 5,992,740; 6,305,606 B1; 6,517,003 B2; 6,631,846 B2; 6,712,271 B2; 6,808,114 B1; 6,817,525 B2, and 6,834,806 B2
European patents 851,378 B1; 895,175 B1; 962,880 B1; 997,760 B1; 1,128,315 B1; and 1,164,536 B1

Additional patents pending.

COMPLIANCE

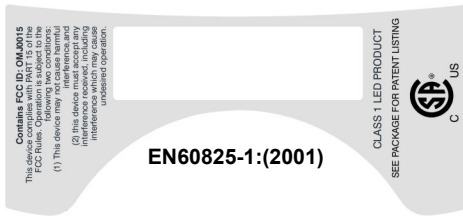
This device must be opened by qualified personnel only.

The batteries must be removed before opening the device.

RADIO COMPLIANCE

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



Gryphon™ Mx00 USA

Gryphon™ Mx00 EU

Class 1 LED product.

FCC COMPLIANCE

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

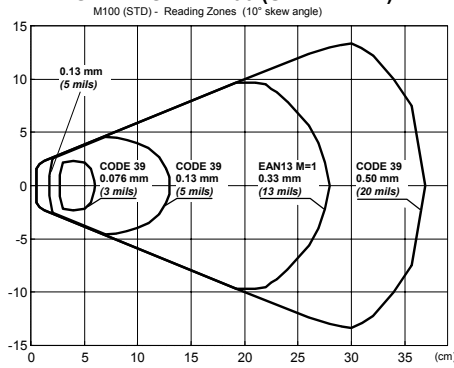
This device complies with PART 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference which may cause undesired operation.

This device contains FCC ID OMJ0015.

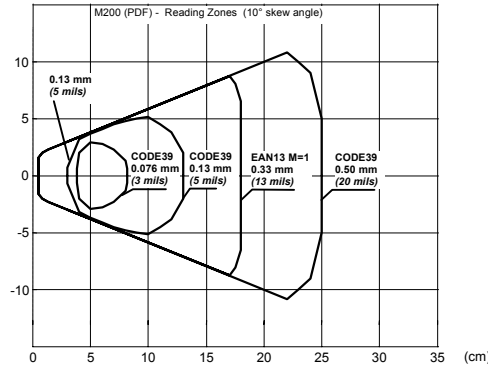
WEEE COMPLIANCE

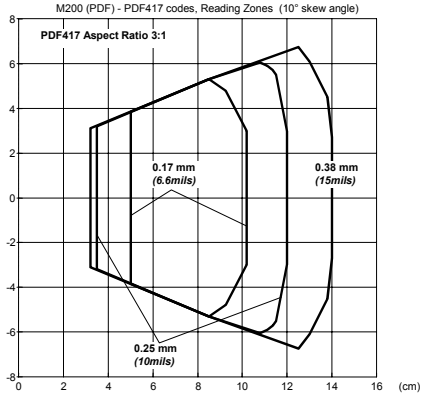
READING DIAGRAMS

GRYPHON™ Mx00 (STANDARD)



GRYPHON™ Mx00 (PDF)





NUMERIC TABLE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Bologna - Italy

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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 alla Direttiva del Consiglio Europeo sottoelencata:
are in conformity with the requirements of the European Council Directive listed below:
sont conformes aux spécifications de la Directive de l'Union Européenne ci-dessous:
der nachstehenden angeführten Direktive des Europäischen Rats entsprechen:
cumple con los requisitos de la Directiva 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:

ETSI EN 301 489-3 v.1.4.1, 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 9 KHZ AND 40 GHZ

ETSI EN 300 220 v.1.1.1, SEPTEMBER 2004: ELECTROMAGNETIC COMPATIBILITY AND RADIO SPECTRUM MATTERS (ERM); SHORT RANGE DEVICES (SRD); RADIO EQUIPMENT TO BE USED IN THE 25 MHZ TO 1000 MHZ FREQUENCY RANGE WITH POWER LEVELS RANGING UP TO 500 MW; PART 3: HARMONIZED EN COVERING ESSENTIAL REQUIREMENTS UNDER ARTICLE 3.2 OF THE R&TTE DIRECTIVE

EN 60950-1, December 2001: INFORMATION TECHNOLOGY EQUIPMENT – SAFETY – PART 1: GENERAL REQUIREMENTS

Lippo di Calderara, September 8th, 2005

Ruggero Cacioppo
Quality Assurance Laboratory Manager