



## General Purpose Handheld Linear Imager Bar Code Reader with Datalogic's STAR Cordless System™

The Gryphon family represents the premium line of Datalogic Scanning's general purpose handheld data collection products. The Gryphon GM4100 cordless linear imaging readers offer the richest feature set among general purpose product offerings.

Extremely versatile and durable, the Gryphon GM4100 cordless linear imaging readers are the ultimate solution for applications in retail and light industrial environments where mobility is necessary for improved productivity. Mobile communications also eliminate the restraints caused by cabled devices, providing a safer and more efficient environment for employees.

Narrow band radio communications with Datalogic's STAR Cordless System™ is the key to increased productivity and flexibility in the workplace. The GM4100 reader series offer scalable solutions from simple point-to-point applications to networking capabilities for complex installations. An optional display with a 3-button keypad provides battery status, radio coverage indicator and enables operator interaction with the host system.

Datalogic's new, patented 2-position cradle provides multiple solutions to answer different functional and reduced space requirements. It provides hands-free reading capabilities and a scan-while-charging feature to ensure constant up-time for increased productivity.

GM4100 Batch Mode capability allows thousands of codes to be stored in memory. This feature combined with a long lasting 50K scans per charge Lithium-Ion battery allows unlimited mobility and reliable data collection when out-of-range from the base station.

Featuring Datalogic's exclusive patented 'Green Spot' for good read feedback directly on the code, it helps to improve productivity especially in noisy environments. When using the product with the cradle at a 45° position, the Green Spot can work as an aiming system remaining on to aid in positioning the code for quick and intuitive reading.

Standard multi-interface capabilities (GM4130) provide host connectivity via USB, RS-232, Keyboard Wedge and Wand Emulation while IBM interface models (GM4110) provide connectivity via IBM 46XX, USB and RS-232 emulation. The Datalogic Aladdin™ configuration program provides user-friendly features that simplify the start-up procedure, even for inexperienced users.



## Features

- Fastest speed-to-read - 325 reads/second
- Radio frequencies available in 433 MHz or 910 MHz
- Radio Range (open air) up to 30.0 m / 98.4 ft for 433 MHz, up to 15.0 m / 49.2 ft for 910 MHz
- Optional display with 3-Key keypad
- Point-to-point and multi-point transmission
- Datalogic's patented 2-position cradle with Scan-While-Charging capability
- Batch Mode capability (>1200 codes stored in memory)
- Drop resistance to 1.8 m / 5.9 ft
- Datalogic's patented 'Green Spot' for good-read feedback
- Long lasting user-replaceable Lithium-Ion battery
- Optional Counterfeit Detection
- USB Certified Kits Available



## Specifications

### CORDLESS COMMUNICATIONS

DATALOGIC STAR CORDLESS SYSTEM™

Effective Radiated Power: 433.92 MHz: < 10 mW; 910 MHz: < 1 mW  
Multi-Point Configuration: Max. Readers per Radio Receiver: 16;  
Point-to-Point Configuration  
Radio Frequency: 433.92 MHz; 910 MHz; Radio Range (Open Air): 433.92  
MHz: 30.0 m / 98.4 ft; 910 MHz: 15.0 m / 49.2 ft;  
Two Way Communications

### DECODING CAPABILITY

1D / LINEAR CODES  
POSTAL CODES  
STACKED CODES

Autodiscriminates all standard 1D codes including GS1 DataBar™ linear codes  
China Post  
GS1 DataBar Expanded Stacked; GS1 DataBar Stacked; GS1 DataBar  
Stacked Omnidirectional

### ELECTRICAL

BATTERY

Battery Type: Lithium-Ion, 2100 mAh  
Charge Time: External Power: 4 Hours @ 12 VDC  
Reads per Charge: 50,000

CRADLE INDICATOR LEDS  
CURRENT

Battery Charging (Red); Charge Completed (Green); Power/Data (Yellow)  
Charging (Typical): < 8 W; Operating (Typical): < 2.5 W @ 5 VDC; Standby/  
Idle (Typical): < 2.5 mA @ 5 VDC  
4.75 - 14 VDC +/- 5%

INPUT VOLTAGE

### ENVIRONMENTAL

AMBIENT LIGHT  
DROP RESISTANCE  
ESD PROTECTION (AIR DISCHARGE)  
HUMIDITY (NON-CONDENSING)  
PARTICULATE AND WATER SEALING  
TEMPERATURE

100,000 lux  
Withstands repeated drops from 1.8 m / 5.9 ft onto a concrete surface  
16 kV  
5 - 95%  
IP52  
Operating: 0 to 50 °C / 32 to 122 °F; Storage/Transport: -20 to 70 °C / -4 to 158 °F

### INTERFACES

RS-232 / IBM 46XX / USB Multi-Interface  
RS-232 / USB / Keyboard Wedge / Wand Multi-Interface

### OPTIONAL FEATURES

COUNTERFEIT DETECTION

BC4010-BK-910-CF; BC4010-BK-433-CF: Field of View: 20°; UV LEDs: 8  
Input Current (Maximum): 25 mA; Optical Power: 19-26 mW @ 20 mA

### PHYSICAL CHARACTERISTICS

COLORS AVAILABLE  
DIMENSIONS

Black; White  
Cradle: 18.6 x 9.9 x 5.6 cm / 7.3 x 3.9 x 2.2 in  
Reader: 18.1 x 7.1 x 10.0 cm / 7.1 x 2.8 x 3.9 in  
Display Type: GM4100-D Only: Graphic with backlight  
Font Dimensions: User selectable (4 lines x 16 columns default)  
Screen Dimensions: 32 x 96 pixels  
GM4100-D Only: 3-Key Keypad  
Cradle: 246.0 g / 8.7 oz; Reader (with Display): 246.0 g / 8.7 oz

DISPLAY

KEYPAD  
WEIGHT

### READING PERFORMANCE

LIGHT SOURCE  
PRINT CONTRAST RATIO (MINIMUM)  
READ RATE (MAXIMUM)  
READING ANGLE  
READING INDICATORS  
RESOLUTION (MAXIMUM)

Illumination: LED Array 630 - 670 nm  
15%  
325 reads/sec.  
Pitch: +/- 65°; Roll (Tilt): +/- 35°; Skew (Yaw): +/- 65°  
Beeper (Adjustable Tone and Volume); Datalogic 'Green Spot' Good  
Read Feedback; Good Read LED  
0.076 mm / 3 mils

### READING RANGES

TYPICAL DEPTH OF FIELD

Minimum distance determined by symbol length and scan angle.  
Printing resolution, contrast, and ambient light dependent.  
5 mils: 6.0 to 18.0 cm / 2.3 to 7.0 in  
7.5 mils: 3.5 to 30.0 cm / 1.4 to 11.7 in  
10 mils: 2.0 to 45.0 cm / 0.8 to 17.7 in  
13 mils: 3.0 to 60.0 cm / 1.2 to 23.4 in  
20 mils: 3.0 to 80.0 cm / 1.2 to 31.2 in

### SAFETY & REGULATORY

AGENCY APPROVALS

The product meets necessary safety and regulatory approvals for its  
intended use.  
The Quick Reference Guide for this product can be referred to for a  
complete list of certifications.  
Complies to China RoHS; Complies to EU RoHS  
IEC 60825-1 Class 1 LED Product

ENVIRONMENTAL COMPLIANCE  
LED CLASSIFICATION

### UTILITIES

DATALOGIC ALADDIN™  
OPOS / JAVAPOS  
REMOTE HOST DOWNLOAD

Datalogic Aladdin configuration program is available for download at no charge  
OPOS Utilities are available for download at no charge  
Lowers service costs and improves operations: BC4010

### WARRANTY

3-Year Factory Warranty

## Accessories



### Base Stations/Chargers

- BC4010-BK Base/Charger, POS Multi-Interface, Black
- BC4010-WH Base/Charger, POS Multi-Interface, White
- BC4030-BK Base/Charger, Standard Multi-Interface, Black
- BC4030-WH Base/Charger, Standard Multi-Interface, White
- BC4010-BK-433-CF / BC4010-BK-910-CF Base/Charger, 433/910 MHz, Multi-Interface/IBM Interface, Counterfeit Detection, Black
- CHR-GM40-BK: Charging Only Base Station, Black
- CHR-GM40-WH: Charging Only Base Station, White

### Batteries/Battery Chargers

- RBP-GM40: Removable Battery Pack

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