



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

With rich feature sets and extensive model options, the Gryphon product series from Datalogic Scanning represents the premium level of data collection equipment for general purpose applications. Extremely versatile and durable the Gryphon Mobile 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 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. It offers scalable solutions from simple point-to-point applications to networking capabilities combined with seamless roaming for complex installations.

The Gryphon Mobile M1X0 models offer standard support for 1D codes including

GS1 DataBar. The M230 models add additional symbology support for stacked codes including PDF417 and GS1 DataBar plus EAN/UPC composite codes.

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 the readers are used in Stand Mode, the Green Spot remains on to aid in positioning the code for quick and intuitive reading.

Datalogic's patented PuzzleSolver™ decoding algorithm guarantees outstanding performance on poorly printed or damaged codes and advanced data editing and data formatting modes are available to format the collected data as required by the application software. The Datalogic Aladdin™ configuration program provides user-friendly features that simplify the start-up procedure, even for inexperienced users.



### Features

- Fast reading performance up to 270 scans/second
- Datalogic's patented 'Green Spot' for good-read feedback
- 100% Compatible with Datalogic's STAR Cordless System™
- 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
- Point-to-point and multi-point transmission
- Multiple interface (RS-232, Keyboard Wedge, Wand and USB)
- Supports GS1 DataBar™ linear codes with additional support for stacked codes like PDF417, MicroPDF and GS1 DataBar plus UPC/EAN composites on select models
- Water and Particulate Sealing Rating: IP30
- Drop resistance to 1.8 m / 5.9 ft



## Specifications

### CORDLESS COMMUNICATIONS

DATALOGIC STAR CORDLESS SYSTEM™

Effective Radiated Power: 433.92 MHz: < 10 mW; 910 MHz: < 1 mW  
 Multi-Point Configuration:  
 Max. Readers in Same Area: 2048  
 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  
 Seamless Roaming

### DECODING CAPABILITY

1D / LINEAR CODES

Autodiscriminates all standard 1D codes including GS1 Databar™ linear codes

STACKED CODES

Code 16K: M2XX; Code 49: M2XX; EAN/JAN Composites; GS1 DataBar Expanded Stacked; GS1 DataBar Stacked; GS1 DataBar Stacked Omnidirectional; MicroPDF417: M2XX; PDF417: M2XX; UPC A/E Composites: M2XX

### ELECTRICAL

BATTERY

Battery Type: 2 AA NiMh  
 Charge Time: External Power: 3 Hours  
 Reads per Charge: 40,000  
 Battery Charging (Red); Charge Completed (Green); Power/Data (Yellow)  
 Operating (Typical): OM Gryphon Cradle: 8 W (Charging)  
 OM Gryphon Cradle: 9 - 28 VDC

CRADLE INDICATOR LEDS

CURRENT  
 INPUT VOLTAGE

### ENVIRONMENTAL

AMBIENT LIGHT  
 DROP RESISTANCE

0 - 100,000 lux  
 Withstands repeated drops from 1.8 m / 5.9 ft onto a concrete surface  
 15 kV  
 90%  
 IP30  
 Operating: 0 to 40 °C / 32 to 104 °F  
 Storage/Transport: -20 to 70 °C / -4 to 158 °F

ESD PROTECTION (AIR DISCHARGE)  
 HUMIDITY (NON-CONDENSING)  
 PARTICULATE AND WATER SEALING  
 TEMPERATURE

### INTERFACES

Keyboard Wedge; RS-232; USB; Wand

### PHYSICAL CHARACTERISTICS

COLORS AVAILABLE  
 DIMENSIONS  
 WEIGHT

Black; Dark Grey; White  
 20.8 x 10.7 x 5.6 cm / 8.2 x 4.2 x 2.2 in  
 OM Gryphon Cradle: 250.0 g / 8.8 oz  
 Reader: 280.0 g / 9.9 oz (With Batteries)

### READING PERFORMANCE

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

CCD Solid-state 3648 pixels  
 Illumination: LED Array 630 - 670 nm  
 15%  
 270 reads/sec.  
 Pitch: 65°; Roll (Tilt): +/- 35°; Skew (Yaw): +/- 80°  
 Beeper (Adjustable Tone); 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: 2.0 to 13.0 cm / 0.8 to 5.1 in  
 7.5 mils: 1.0 to 18.0 cm / 0.4 to 7.0 in  
 10 mils: 0.5 to 22.0 cm / 0.2 to 8.6 in  
 13 mils: 1.0 to 28.0 cm / 0.4 to 11.0 in  
 20 mils: 2.0 to 37.0 cm / 0.8 to 14.4 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 Class 1 LED

ENVIRONMENTAL COMPLIANCE  
 LED CLASSIFICATION

### UTILITIES

DATALOGIC ALADDIN™

Datalogic Aladdin configuration program is available for download at no charge

OPOS / JAVAPOS

JavaPOS Utilities are available for download at no charge  
 OPOS Utilities are available for download at no charge

### WARRANTY

3-Year Factory Warranty

### Base Stations/Chargers

- 90A351000 Base Station/Charger, Multi-Interface USB, 433 MHz
- 90A351010 Base Station/Charger, Multi-Interface USB, 910 MHz
- 90A351029 Base Station/Charger, Multi-Interface IBM, 433 MHz
- 90A351030 Base Station/Charger, Multi-Interface IBM, 910 MHz

### Batteries/Battery Chargers

- 90A351020 Battery Charger, C-Gryphon



### Cases/Holsters

- 90ACC1857 Protective Case/Belt Coupler



### Mounts/Stands

- 90ACC1760 Hands Free Stand (STD-GRYPHON) for Gryphon Dx000/D110/Mx00, DLC707x-M1
- 90ACC1770 Desk/Wall Holder (SPC-GRYPHON)
- 90ACC1873 Hands Free Stand (STD-1010) for Gryphon Dx20/BTx00
- 90ACC1876 PLATE, Metal Plate for STD-Gryphon, STD-10xx

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## General Purpose Handheld Linear Imager Bar Code Reader with Bluetooth® Wireless Technology

With rich feature sets and extensive model options, the Gryphon product series from Datalogic Scanning represents the premium level of data collection equipment for general purpose applications. Extremely versatile and durable the Gryphon BT cordless linear imaging readers with Bluetooth® Wireless Technology are the ultimate solution for applications in retail and light industrial environments where mobility is necessary for improved productivity. Mobile communications eliminate the restraints caused by cabled devices, providing a safer and more efficient work environment.

The Gryphon BT readers can transmit data to the host through its base station as well as any commercial or embedded Bluetooth® v1.2 compliant device. Its Software utility converts serial input to keyboard emulation, providing more interface possibilities. The Gryphon BT100 models offer standard support for 1D codes including GS1 DataBar. The BT200 models add additional

symbology support for stacked codes including PDF417 and GS1 DataBar plus EAN/UPC composite codes.

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 the readers are used in Stand Mode, the Green Spot remains on to aid in positioning the code for quick and intuitive reading.

Datalogic's patented PuzzleSolver™ decoding algorithm guarantees outstanding performance on poorly printed or damaged codes and advanced data editing and data formatting modes are available to format the collected data as required by the application software.



### Features

- Fast reading performance up to 270 scans/second
- Bluetooth Wireless Technology with up to 10 m / 32.8 ft range
- High speed data transmission with zero delay
- Virtual COM and keyboard emulation data input
- Datalogic's patented 'Green Spot' for good-read feedback
- Supports GS1 DataBar™ linear codes with additional support for stacked codes like PDF417, MicroPDF and GS1 DataBar plus UPC/EAN composites on select models
- Water and Particulate Sealing Rating: IP30
- Drop resistance to 1.8 m / 5.9 ft



## Specifications

### CORDLESS COMMUNICATIONS

BLUETOOTH WIRELESS TECHNOLOGY

Protocol: Bluetooth 1.2 Certified Class 2  
Radio Frequency: 2.40 to 2.48 GHz  
Radio Range (Open Air): 10.0 m / 32.8 ft

### DECODING CAPABILITY

1D / LINEAR CODES

Autodiscriminates all standard 1D codes including GS1 Databar™ linear codes

STACKED CODES

Code 16K; Code 49; GS1 DataBar Expanded Stacked; GS1 DataBar Stacked; GS1 DataBar Stacked Omnidirectional; PDF417; Model BT200

### ELECTRICAL

BATTERY

Battery Type: 2 AA NiMH  
Charge Time: External Power: 4 Hours  
Reads per Charge: 24,000

CRADLE INDICATOR LEDS

Battery Charging (Red): Charge Completed (Green): Power/Data (Yellow)

CURRENT

Operating (Typical): C-Gryphon Base/Charger: 8 Watts

INPUT VOLTAGE

C-Gryphon Base/Charger: 9 - 28 VDC

### ENVIRONMENTAL

AMBIENT LIGHT

0 - 100,000 lux

DROP RESISTANCE

Withstands repeated drops from 1.8 m / 5.9 ft onto a concrete surface

ESD PROTECTION (AIR DISCHARGE)

16 kV

HUMIDITY (NON-CONDENSING)

90%

PARTICULATE AND WATER SEALING

IP30

TEMPERATURE

Operating: 0 to 40 °C / 32 to 104 °F  
Storage/Transport: -20 to 70 °C / -4 to 158 °F

### INTERFACES

RS-232

### PHYSICAL CHARACTERISTICS

COLORS AVAILABLE

Dark Grey

DIMENSIONS

20.8 x 10.7 x 5.6 cm / 8.2 x 4.2 x 2.2 in

WEIGHT

C-Gryphon Base/Charger: 250.0 g / 8.8 oz  
Reader: 280.0 g / 9.9 oz (With Batteries)

### READING PERFORMANCE

IMAGER SENSOR

CCD Solid-state 3648 pixels

LIGHT SOURCE

Illumination: LED Array 630 - 670 nm

PRINT CONTRAST RATIO (MINIMUM)

15%

READ RATE (MAXIMUM)

270 reads/sec.

READING ANGLE

Pitch: 65°; Roll (Tilt): +/- 35°; Skew (Yaw): +/- 80°

READING INDICATORS

Beeper (Adjustable Tone); Datalogic 'Green Spot' Good Read Feedback: BlueSpot; Good Read LED

RESOLUTION (MAXIMUM)

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: 2.0 to 13.0 cm / 0.8 to 5.1 in

7.5 mils: 1.0 to 18.0 cm / 0.4 to 7.0 in

10 mils: 0.5 to 22.0 cm / 0.2 to 8.6 in

13 mils: 1.0 to 28.0 cm / 0.4 to 11.0 in

20 mils: 2.0 to 37.0 cm / 0.8 to 14.4 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.

ENVIRONMENTAL COMPLIANCE

Complies to China RoHS; Complies to EU RoHS

LED CLASSIFICATION

IEC 60825 Class 1 LED

### WARRANTY

3-Year Factory Warranty



#### Cases/Holsters

- 90ACC1857 Protective Case/Belt Coupler



#### Mounts/Stands

- 90ACC1790 esk/Wall Holder
- 90ACC1873 Hands Free Stand (STD-1010) for Gryphon Dx20/BTx00

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