



General Purpose Corded Handheld Area Imager Bar Code Reader

The Gryphon™ 4000 series represents the premium level of data collection devices from Datalogic Scanning for general purpose applications. Designed with people in mind, the Gryphon™ I GD4400 imager blends advanced 2D reading with motion sensing technology, producing a user-friendly device with outstanding performance.

Perfect for both handheld and presentation reading, the Gryphon I GD4400 imager features Datalogic's Motionix™ motion-sensing technology which detects the natural actions of the operator to automatically switch the scanner into the desired scanning mode. This technology works with or without the use of a stand, offering more operational choices. Both the aimer and sensor can be programmed to the user's desired preferences.

User comfort is maximized with the Gryphon I GD4400 imager's steady, deep red illumination light. Easier on the eyes than competitive products with flicker illumination, the highly visible 4-Dot aimer defines a precise reading zone and reduces

accidental reads. The aimer's center cross provides a locator for targeted scanning in a multiple bar code environment.

The Gryphon I GD4400 imager provides snappy reading performance on all common 1D and 2D codes as well as postal, stacked and composite codes like PDF417. High Density (HD) models are also available for reading smaller, condensed codes. For mobile marketing or ticketing applications, this imager also offers excellent performance when reading bar codes from mobile devices.

The Gryphon I GD4400 2D omnidirectional reader eliminates the need for separate equipment with signature capture and document scanning capabilities. Its enhanced optics offer improved motion tolerance and high speed imaging to read fast moving codes.

As a corded device, the Gryphon I GD4400 imager is available in two different interface models: a multi-standard interface for connection to the host via USB (COM and Wedge Emulation), RS-232 or Wedge Emulation or an IBM 46XX interface model, including USB and RS-232 interfaces.

Features

- Motionix™ motion-sensing technology for seamless reading mode transitions
- Highly visible 4-Dot aimer with center cross for targeted scanning
- Omnidirectional reading
- Advanced motion tolerance optics
- Image capture and document scanning capabilities
- Reads 1D, 2D and postal codes plus stacked and composite codes
- Multi-interface options: RS-232 / IBM 46XX / USB or RS-232 / USB / Keyboard Wedge / Wand
- Datalogic's patented 'Green Spot' for good-read feedback



Specifications

DECODING CAPABILITY

1D / LINEAR CODES

Autodiscriminates all standard 1D codes including GS1 DataBar™ linear codes.

2D CODES

Aztec Code; China Han Xin Code; Data Matrix; MaxiCode; Micro QR Code; QR Code

POSTAL CODES

Australian Post; British Post; China Post; IMB; Japanese Post; KIX Post; Korea Post; Planet Code; Postnet; Royal Mail Code (RM4SCC)

STACKED CODES

EAN/JAN Composites; GS1 DataBar Composites; GS1 DataBar Expanded Stacked; GS1 DataBar Stacked; GS1 DataBar Stacked Omnidirectional; MacroPDF; MicroPDF417; PDF417; UPC A/E Composites

ELECTRICAL

CURRENT

Operating (Typical): GD4410: < 170 mA @ 5 VDC; GD4430 < 160 mA @ 5 VDC

INPUT VOLTAGE

Standby/Idle (Typical): 65 mA @ 5 VDC
GD4410: 4.0 - 14.0 VDC; GD4430: 4.2 - 5.25 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)

5 - 95%

PARTICULATE AND WATER SEALING

IP52

TEMPERATURE

Operating: 0 to 50 °C / 32 to 122 °F
Storage/Transport: -20 to 70 °C / -4 to 158 °F

INTERFACES

GD4410: RS-232 / IBM 46XX / USB Multi-Interface

GD4430: RS-232 / USB / Keyboard Wedge / Wand Multi-Interface

PHYSICAL CHARACTERISTICS

COLORS AVAILABLE

Black; White

DIMENSIONS

18.1 x 7.1 x 10.0 cm / 7.1 x 2.8 x 3.9 in

WEIGHT

195.0 g / 6.9 oz

READING PERFORMANCE

IMAGE CAPTURE

Graphic Formats: BMP, JPEG, TIFF; Greyscale: 256, 16, 2

IMAGER SENSOR

Wide VGA: 752 x 480 pixels

LIGHT SOURCE

Aiming: 650 nm VLD

MOTION TOLERANCE

25 IPS

PRINT CONTRAST RATIO (MINIMUM)

25%

READING ANGLE

Pitch: +/- 40°; Roll (Tilt): 180°; Skew (Yaw): +/- 40°

READING INDICATORS

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

RESOLUTION (MAXIMUM)

High Density (HD): 1D Linear: 0.077 mm / 3 mils;
Data Matrix: 0.127 mm / 5 mils; PDF417: 0.102 mm / 4 mils
Standard Range (SR): 1D Linear: 0.102 mm / 4 mils;
Data Matrix: 0.178 mm / 7 mils; PDF417: 0.102 mm / 4 mils

READING RANGES

TYPICAL DEPTH OF FIELD

Minimum distance determined by symbol length and scan angle. Printing resolution, contrast, and ambient light dependent.

GD4400 Standard Range (SR)

Code 39: 5 mils: 4.0 to 19.0 cm / 1.6 to 7.5 in
Code 39: 10 mils: 1.0 to 30.0 cm / 0.4 to 11.8 in
Data Matrix: 10 mils: 2.0 to 16.0 cm / 0.8 to 6.3 in
Data Matrix: 15 mils: 0 to 23.6 cm / 0 to 9.3 in
EAN-13: 13 mils: 1.5 to 40.0 cm / 0.6 to 15.7 in
PDF417: 10 mils: 0.5 to 22.0 cm / 0.2 to 8.6 in
QR Code: 10 mils: 3.0 to 12.5 cm / 1.2 to 4.9 in

GD4400 High Density (HD)

Code 39: 3 mils: 2.4 to 9.1 cm / 0.9 to 3.6 in
Code 39: 5 mils: 0.8 to 11.3 cm / 0.3 to 4.5 in
Data Matrix: 5 mils: 2.8 to 6.1 cm / 1.1 to 2.4 in
EAN-13: 13 mils: 1.1 to 17.2 cm / 0.4 to 6.8 in
PDF417: 4 mils: 1.8 to 6.8 cm / 0.7 to 2.7 in
PDF417: 10 mils: 0 to 14.3 cm / 0 to 5.6 in
QR Code: 6.7 mils: 2.1 to 4.2 cm / 0.8 to 1.7 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

Caution Laser Radiation - Do not stare into beam; IEC 60825 Class 2

ENVIRONMENTAL COMPLIANCE

LASER 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.

REMOTE HOST DOWNLOAD

OPOS Utilities are available for download at no charge. Lowers service costs and improves operations.

WARRANTY

5-Year Factory Warranty

Accessories



Mounts/Stands

- 11-0360 Holder, Multi-Purpose, Black
- 11-0362 Holder, Multi-Purpose, Grey
- HLD-G040-BK Desk/Wall Holder, G040, Black
- HLD-G040-WH Desk/Wall Holder, G040, White
- STD-AUTO-G040-BK Smart Stand, G040, Black
- STD-AUTO-G040-WH Smart Stand, G040, White
- STD-G040-BK Basic Stand, G040, Dark
- STD-G040-WH Basic Stand, G040, White

© 2011 Datalogic Scanning Inc.

All rights reserved. • Protected to the fullest extent under U.S. and international laws.

• Copying, or altering of this document is prohibited without express written consent from Datalogic Scanning, Inc.

Datalogic and the Datalogic logo are registered trademarks of Datalogic S.p.A. in many countries including the U.S.A. and the E.U. Datalogic Aladdin is a trademark of Datalogic Scanning Group S.r.l.

Gryphon and Motionix are trademarks of Datalogic Scanning, Inc.

Other brand and product names may be trademarks of their respective owners.

Product specifications are subject to change without notice.

DS-GRYPHONIGD44002D-ENA4 20110323

www.scanning.datalogic.com



General Purpose Corded Area Imager Bar Code Reader

The Gryphon™ 4000 series represents the premium level of data collection devices from Datalogic Scanning for general purpose applications. Designed with people in mind, the Gryphon™ I GD4400-B All-in-One imager blends advanced 2D decoding with motion sensing technology, producing a user-friendly device with outstanding performance.

Featuring Datalogic's Motionix™ motion-sensing technology, the Gryphon I GD4400-B imager senses the actions of the operator to automatically switch the device into handheld or presentation mode scanning. When picked up or set down, Motionix technology transitions the device seamlessly, eliminating the need to scan a label or rely on a mechanical switch.

As an All-in-One device, the Gryphon I GD4400-B scanner's permanent tilting stand is joined with an ergonomic handheld reader for handheld and presentation reading. The All-in-One imager adjusts to any angle to fit individual scanning preferences. The cable connection

is positioned well above the counter to avoid damage caused by spills.

User comfort is maximized with the Gryphon I GD4400-B imager's steady, deep red illumination light. Easier on the eyes than competitive products with flicker illumination, the highly visible 4-Dot aimer defines a precise reading zone and reduces accidental reads. The aimer's center cross provides a locator for targeted scanning in a multiple bar code environment.

The Gryphon I GD4400-B imager provides snappy, omnidirectional reading performance on all common 1D and 2D codes as well as postal, stacked and composite codes like PDF417. For mobile marketing or ticketing applications, this scanner also offers excellent reading performance on bar codes from mobile devices.

With enhanced optics, the Gryphon I GD4400-B imager boasts improved motion tolerance and high speed imaging to read fast moving codes. This reader also eliminates the need for separate equipment for signature capture and document scanning applications.



Features

- Motionix™ motion-sensing technology for seamless reading mode transitions
- Highly visible 4-Dot aimer with center cross for targeted scanning
- Permanent tilting stand for handheld or presentation omnidirectional reading
- Tilt Angle: + 30° / - 15°
- Advanced motion tolerance optics
- Image capture and document scanning capabilities
- Reads 1D, 2D and postal codes plus stacked and composite codes
- Multi-interface options: RS-232 / IBM 46XX / USB or RS-232 / USB / Keyboard Wedge / Wand
- Datalogic's patented 'Green Spot' for good-read feedback



Specifications

DECODING CAPABILITY

1D / LINEAR CODES

Autodiscriminates all standard 1D codes including GS1 DataBar™ linear codes.

2D CODES

Aztec Code; China Han Xin Code; Data Matrix; MaxiCode; Micro QR Code; QR Code

POSTAL CODES

Australian Post; British Post; China Post; IMB; Japanese Post; KIX Post; Korea Post; Planet Code; Postnet; Royal Mail Code (RM4SCC)

STACKED CODES

EAN/JAN Composites; GS1 DataBar Composites; GS1 DataBar Expanded Stacked; GS1 DataBar Stacked; GS1 DataBar Stacked Omnidirectional; MacroPDF; MicroPDF417; PDF417; UPC A/E Composites

ELECTRICAL

CURRENT

Operating (Typical): GD4410-B: < 170 mA @ 5 VDC
GD4430-B: < 160 mA @ 5 VDC

STANDBY/IDLE (TYPICAL)

65 mA @ 5 VDC

INPUT VOLTAGE

GD4410-B: 4.0 - 14.0 VDC; GD4430-B: 4.2 - 5.25 VDC

ENVIRONMENTAL

AMBIENT LIGHT

0 - 100,000 lux

DROP RESISTANCE

Withstands repeated drops from 1.5 m / 5.0 ft onto a concrete surface

ESD PROTECTION (AIR DISCHARGE)

16 kV

HUMIDITY (NON-CONDENSING)

5 - 95%

PARTICULATE AND WATER SEALING

IP52

TEMPERATURE

Operating: 0 to 50 °C / 32 to 122 °F

Storage/Transport: -20 to 70 °C / -4 to 158 °F

INTERFACES

GD4410-B: RS-232 / IBM 46XX / USB Multi-Interface

GD4430-B: RS-232 / USB / Keyboard Wedge / Wand Multi-Interface

PHYSICAL CHARACTERISTICS

COLORS AVAILABLE

Black; White

DIMENSIONS

19.2 x 8.9 x 11.9 cm / 7.5 x 3.5 x 4.7 in

WEIGHT

368.5 g / 13.0 oz

READING PERFORMANCE

IMAGE CAPTURE

Graphic Formats: BMP, JPEG, TIFF; Greyscale: 256, 16, 2

IMAGER SENSOR

Wide VGA: 752 x 480 pixels

LIGHT SOURCE

Aiming: 650 nm VLD

MOTION TOLERANCE

25 IPS

PRINT CONTRAST RATIO (MINIMUM)

25%

READING ANGLE

Pitch: +/- 40°; Roll (Tilt): 180°; Skew (Yaw): +/- 40°

READING INDICATORS

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

Good Read LED

RESOLUTION (MAXIMUM)

1D Linear: 0.102 mm / 4.0 mils; Data Matrix: 0.178 mm / 7.0 mils;

PDF417: 0.127 mm / 5.0 mils

READING RANGES

TYPICAL DEPTH OF FIELD

Minimum distance determined by symbol length and scan angle.

Printing resolution, contrast, and ambient light dependent.

Standard Range (SR)

Code 39: 5 mils: 4.0 to 19.0 cm / 1.6 to 7.5 in

Code 39: 10 mils: 1.0 to 30.0 cm / 0.4 to 11.8 in

Data Matrix: 10 mils: 2.0 to 16.0 cm / 0.8 to 6.3 in

Data Matrix: 15 mils: 0 to 23.6 cm / 0 to 9.3 in

EAN-13: 13 mils: 1.5 to 40.0 cm / 0.6 to 15.7 in

PDF417: 10 mils: 0.5 to 22.0 cm / 0.2 to 8.6 in

QR Code: 10 mils: 3.0 to 12.5 cm / 1.2 to 4.9 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

Caution Laser Radiation - Do not stare into beam; IEC 60825 Class 2

ENVIRONMENTAL COMPLIANCE

LASER 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.

REMOTE HOST DOWNLOAD

OPOS Utilities are available for download at no charge.

Lowers service costs and improves operations.

WARRANTY

5-Year Factory Warranty



© 2011 Datalogic Scanning Inc.

All rights reserved. • Protected to the fullest extent under U.S. and international laws.

• Copying, or altering of this document is prohibited without express written consent from Datalogic Scanning, Inc.

Datalogic and the Datalogic logo are registered trademarks of Datalogic S.p.A. in many countries including the U.S.A. and the E.U. Datalogic Aladdin is a trademark of Datalogic Scanning Group S.r.l.

Gryphon and Motionix are trademarks of Datalogic Scanning, Inc.

Other brand and product names may be trademarks of their respective owners.

Product specifications are subject to change without notice.

DS-GRYPHONIGD4400-B-2D-EN 20110323

www.scanning.datalogic.com