# GRYPHON™ I GD4500 2D

**◇DATALOGIC**
EMPOWER YOUR VISION

## IMAGING TECHNOLOGY

The Gryphon™ 4500 series represents the premium range of hand held scanners from Datalogic for general purpose applications. Designed with people in mind, the Gryphon I GD4500 imager stands out with an elegant and trendy design, unchallenged ergonomics and features the most advanced Megapixel sensor with white-illumination 2D technology for outstanding performance.

## TOP TECHNOLOGIES FOR TODAY'S POS

Perfect for both hand held and presentation reading, the Gryphon I GD4500 imager exploits 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.

Datalogic distinctive reading technology with highly visible white-illumination is easier on the human eyes and reads colored labels better. The highly visible 4-Dot aimer defines a precise reading zone and reduces accidental reads, while the aimer's center cross provides a locator for targeted scanning in a multiple bar code environment.

## SIMPLE TO USE AND DEPLOY

The Gryphon I GD4500 omnidirectional 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. A dedicated version with red illumination optics reads Digital Watermarking.

For mobile marketing or ticketing applications, this imager also offers excellent performance when reading bar codes from mobile devices. The enhanced optics offer improved motion tolerance and high speed imaging to read fast moving codes.

## FEATURES

- 1 MP optics for superior scanning and Depth Of Field
- Datalogic distinctive technology with highly visible white-illumination and 4-Dot aimer with center cross for targeted scanning
- Datalogic's patented 'Green Spot' technology and exclusive 3GL™ (3 Green Lights) for superior good-read feedback
- Motionix™ motion-sensing technology for seamless reading mode transitions
- Omnidirectional reading
- Advanced motion tolerance optics
- Image capture and document scanning capabilities
- Reads 1D, 2D, postal codes, stacked and composite bar codes and dot codes
- Digital Watermarking and DPM reading on specific models/applications
- Multi-interface options: USB-only or multi-interface RS-232 / USB / Keyboard Wedge
- EASEOFCARE Service Plans offer a wide range of service options to protect your investment, ensuring maximum productivity and ROI

## INDUSTRY – APPLICATION

- Retail - Point of Sale
- Light Manufacturing
- Healthcare: in laboratories, pharmacies and in-room patient care
- Access Control, Transportation and Entertainment
- Commercial Services: Postal, Banks, Public Administration, Utilities

## GRYPHON™ I GD4500 2D
# TECHNICAL SPECIFICATIONS

### DECODING CAPABILITY

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|---|---|
| **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; Dot code |
| **Postal Codes** | Australian Post; British Post; China Post; IMB; Japanese Post; KIX 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 |
| **Digital Watermarking** | Digimarc Barcodes |

### ELECTRICAL

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|---|---|
| **Current** | Operating: <400 mA @ 5V; < 400 mA @ 12V<br>Standby/Idle:  < 90 mA @ 5V; <50 mA @ 12V |
| **Input Voltage** | GD4520: 5  VDC<br>GD4590: 4.5  - 14.0  VDC |

### ENVIRONMENTAL

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|---|---|
| **Ambient Light** | 0 - 100,000 lux |
| **Drop Resistance** | Withstands repeated drops from 1.8 m / 6.0 ft onto a concrete surface. |
| **ESD Protection (Air Discharge)** | 16 kV |
| **Humidity (Non-Condensing)** | 0 - 95% |
| **Particulate and Water Sealing** | IP52 |
| **Temperature** | Operating: 0 to 50 °C / 32 to 122 °F<br>Storage/Transport: -40 to 70 °C / -40 to 158 °F |

### INTERFACES

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| **Interfaces** | GD4520: USB only<br>GD4590: RS-232 / USB / Keyboard Wedge Multi-Interface |

### PHYSICAL CHARACTERISTICS

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| **Colors Available** | Black; White |
| **Dimensions** | 16.6 x 6.8 x 10.9 cm / 6.5  x 2.7 x 4.3 in<br>In Stand: 21 x 7.5 x 10.9 cm / 8.2 x 2.9 x 4.2 in |
| **Weight** | 161.0 g / 5.7 oz<br>In Stand: 374 g / 13.2 oz |

### WARRANTY

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| **Warranty** | 5-Year Factory Warranty |

### READING PERFORMANCE

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| **Image Capture** | Graphic Formats: BMP, JPEG, TIFF;<br>Greyscale: 256, 16, 2 |
| **Image Sensor** | 1 Megapixel: 1280 x 800 pixels |
| **Light Source** | Aiming: Red Laser 650 nm<br>Illumination: Warm White; Hyper Red LED for Digimarc |
| **Motion Tolerance** | 35 IPS |
| **Print Contrast Ratio (Minimum)** | 15% |
| **Reading Angle** | Pitch: +/- 65°; Roll (Tilt): 360°; Skew (Yaw): +/- 65° |
| **Reading Indicators** | Beeper (Adjustable Tone); Datalogic Three Green Lights (3GL) Good Read Feedback: Datalogic 'Green Spot' on the Code, Dual Good Read LEDs |
| **Resolution (Maximum)** | High Density (HD): 1D Linear: 0.077 mm / 3 mils;<br>PDF417: 0.077 mm / 3 mils;<br>Data Matrix: 0.102 mm / 4 mils<br>Standard Range (SR): 1D Linear: 0.102 mm / 4 mils;<br>PDF417: 0.127 mm / 5 mils;<br>Data Matrix: 0.195 mm / 7.5 mils |

### READING RANGES

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| **Typical Depth of Field** | Minimum distance determined by symbol length and scan angle. Printing resolution, contrast, and ambient light dependent. |

**GD4500 Standard Range (SR)**
Code 39: 5 mils: 7.0 to 38.0 cm / 2.7 to 14.9 in
Code 39: 10 mils: 2.2 to 58.0 cm / 0.8 to 22.8 in
Data Matrix: 10 mils: 5.5 to 27.0 cm / 2.2 to 10.6 in
Data Matrix: 15 mils: 2.8 to 41.0 cm / 1.1 to 16.1 in
EAN-13: 13 mils: 1.0 to 71.0 cm / 0.4 to 27.9 in
PDF417: 10 mils: 2.5 to 41.0 cm / 1.0 to 16.1 in
QR Code: 10 mils: 5.5 to 24.0 cm / 2.2 to 9.5 in

**GD4500 High Density (HD)**
Code 39: 3 mils: 5.0 to 15.0 cm / 2.0 to 5.9 in
Code 39: 5 mils: 0.5 to 25.0 cm / 0.2 to 9.8 in
Data Matrix: 5 mils: 5.5 to 9.0 cm / 2.2 to 3.5 in
Data Matrix: 10 mils: 2.0 to 27.0 cm / 0.8 to 10.6 in
EAN-13: 7.5 mils: 2.0  to 23.5 cm / 0.8 to 9.3 in
EAN-13: 13 mils: 1.0 to 40.0 cm / 0.4 to 15.7 in
PDF417: 4 mils: 3.0  to 12.0 cm / 1.2 to 4.7 in
PDF417: 10 mils: 0.5 to 31.0 cm / 0.2 to 12.2 in
QR Code: 10 mils: 2.0 to 25.0 cm / 0.8 to 9.8 in

### SAFETY & REGULATORY

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| **Agency Approvals** | The product meets necessary safety and regulatory approvals for its intended use.<br>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 |
| **Laser Classification** | Caution Laser Radiation - Do not stare into beam; IEC 60825 Class 2 |

### UTILITIES

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| **Datalogic Aladdin™** | Datalogic Aladdin configuration program is available for download at no charge. |
| **OPOS JavaPOS** | JavaPOS and OPOS Utilities are available for download at no charge. |
| **Remote Host Download** | Remote Host Download<br>Lowers service costs and improves operations |

# ACCESSORIES
## Mounts/Stands

11-0360  Holder, Multi-Purpose, Black
11-0362  Holder, Multi-Purpose, Grey
HLD-G041-BK  Desk/Wall Holder, G041, Black
HLD-G041-WH  Desk/Wall Holder, G041, White
STD-G041-BK  Basic Stand, G041, Black
STD-G041-WH  Basic Stand, G041, White

### DATALOGIC PRODUCT OFFERING



Sensors | Hand Held scanners | Mobile Computers | Laser Marking Systems | Safety Laser Scanner | Vision Systems | Stationary Industrial Scanners | Safety Light Curtains