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 4500 series stands
out with its elegant and cutting edge design, the unchallenged
ergonomics, and features the most advanced Megapixel sensor with
white-illumination 2D technology for outstanding performance.

WIRELESS COMMUNICATIONS
Featuring Bluetooth® wireless technology (GBT model) or narrow
band radio communications with Datalogic’s STAR Cordless System™
(GM model), the Gryphon 4500 wireless readers provide maximum
flexibility to solve any end user application with the best technical
solution.

WIRELESS CHARGING
One of the most important technical innovations that the Gryphon
4500 wireless scanners achieve is the battery recharge through an
inductive charging system, which enhances the reliability of the entire
solution, lowering the total cost of ownership because it eliminates
the need for contacts’ cleaning and maintenance procedures. The
maximum reliability offered by the Gryphon wireless charging
technology means 24/7 activities with no stops for maintenance or
repair and top-level operating productivity and performance.

SIMPLE TO USE AND DEPLOY
The Gryphon I 4500 omnidirectional imager provides snappy reading
performance on all common 1D and 2D codes. High Density (HD)
models are available for reading smaller, condensed codes as well
as a dedicated version with red illumination optics to support Digital
Watermarking.

Datalogic’s Motionix™ motion-sensing technology enables the
scanner to intuitively switch into hand held mode when the device is
picked up. When placed back into the stand, it seamlessly returns to
stand mode. The adjustable position cradle provides the flexibility to
use the scanner in presentation or stand mode while it’s charging.

FEATURES
• 1 MP optics for superior scanning and DOF
• Datalogic distinctive technology with highly visible white-illumination and 4-Dot aimer with center
cross for targeted scanning
• Datalogic’s patented ‘Green Spot’ technology, exclusive 3GL™ (3 Green Lights) and Vibration for
superior good-read feedback
• Motionix™ motion-sensing technology for seamless reading mode transitions
• Omnidirectional reading
• 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
• Choice of Bluetooth wireless technology version 4.0 with BLE or Datalogic STAR Cordless System
(radio frequencies available in 433 MHz or 910 MHz)
• Wireless battery charging system
• Adjustable position cradle with Scan-While- Charging capability
• Batch Mode capability
• Point-to-point / Point-to-multipoint transmission
• Long lasting user-replaceable Lithium-Ion battery

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
## CORDLESS COMMUNICATIONS

**Datologic STAR Cordless System™**
- Effective Radiated Power: 433.92 MHz: < 6.3 mW; 910 MHz: < 50 mW
- Multi-Point Configuration: Max. Readers per Radio Receiver: 16; Point-to-Point Configuration: Radio Frequency: 433.92 MHz; 910 MHz;
- Two Way Communications: Radio Range (Open Air): 50.0 m / 164.0 ft

**Bluetooth® Wireless Technology**
- Piconet: Max. Readers per Radio Receiver: 7 Profiles: SPP (Serial Port Profile)
- Protocol: Bluetooth® 4.0 with BLE Certified Class 1, Class 2 and Class 3, Radio Frequency: 2.4 GHz
- Radio Range (Open Air): 100.0 m / 328.0 ft; Range distances are measured using the base station.
- Range with connection to other Bluetooth peripherals may show different results.
- Security: Data Encryption; Scanner Authentication

## 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; 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

**Battery**
- Battery Type: Lithium-Ion: 3250 mAh
- Charge Time: External Power: 4 Hours @ 12 VDC; Reads per Charge: 80,000

**Cradle Indicator LEDs**
- Battery Charging (flashing orange); Charge Completed (steady green)

**Current**
- Charging (Typical): < 6 W; Scanner only: 330 mA @ 3.7 V (Operative)
- Cradle only: 80 mA @ 5 V (Operative)

**Input voltage**
- 4.5 - 14 VDC +/- 5%

## ENVIRONMENTAL

**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-Conducting)**
- 0 - 95%

**Particulate and Water Sealing**
- IP52

**Temperature**
- Operating: 0 to 50 °C / 32 to 122 °F
- Storage/Transport: -40 to 70 °C / -40 to 158 °F

## INTERFACES

**Interfaces**
- RS-232 / USB / Keyboard Wedge Multi-Interface

## PHYSICAL CHARACTERISTICS

**Colors Available**
- Black; White

**Dimensions**
- 16.6 x 6.8 x 10.9 cm / 6.5 x 2.7 x 4.3 in

**Weight**
- 235 g / 8.29 oz

## ACCESSORIES

**Base Stations/Chargers**
- WLC4090-BK / WLC4090-WH: Bluetooth® Base station; Wireless Charger; Multi-Interface (Black / White)
- WLC4090-BK-433 / WLC4090-WH-433: 433 MHz Base station; Wireless Charger; Multi-Interface (Black / White)
- WLC4090-BK-910 / WLC4090-WH-910: 910 MHz Base station; Wireless Charger; Multi-Interface (Black / White)
- • RBP-GM45 Removable Battery Pack

**Base Stations/Chargers**
- • MC-GM45 Battery Charger, 4-Slot

## READING PERFORMANCE

**Image Capture**
- Graphic Formats: BMP, JPEG, TIFF; Grayscale: 256, 16, 2

**Image Sensor**
- 1 Megapixel: 1280 x 800 pixels

**Light source**
- Aiming: Red Laser 650 nm 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); Vibration feedback option available for quiet places; Datatalogic 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; PDF417: 0.077 mm / 3 mils / 3 mils; Data Matrix: 0.102 mm / 4 mils
- Standard Range (SR): 1D Linear: 0.102 mm / 4 mils; PDF417: 0.127 mm / 5 mils; Data Matrix: 0.195 mm / 7.5 mils

## READING RANGES

**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: 5.0 to 25.0 cm / 0.2 to 9.8 in
- Data Matrix: 5 mils: 9.5 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

**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

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

**UTILITIES**

**Datologic Aladdin™**
- Datologic 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**
- Lowers service costs and improves operations

**WARRANTY**
- 3-Year Factory Warranty

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