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GRYPHON™ 4500 SERIES

DATALOGIC

Premium handheld scanners for corded or cordless value added applications using 2D barcodes





IMAGING TECHNOLOGY

The Gryphon 4500 series represents the premium range of handheld scanners from Datalogic for value added 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.

SIMPLE TO USE AND DEPLOY

The Gryphon I 4500 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 first pass decoding of fast moving codes.

READY TO BE REGULARLY CLEANED AND DISINFECTED

Most working environments now have requirements that scanners need to be regularly cleaned and disinfected. The Gryphon 4500 series utilizes Disinfectant-Ready enclosures, designed to withstand regular daily cleaning with harsh disinfectant solutions commonly used in a healthcare environment.

WIRELESS COMMUNICATIONS AND WIRELESS CHARGING

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

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

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 'Green Spot' technology, exclusive 3GL™ (3 Green Lights) and Vibration for superior good-read feedback
- Motionix™ motion-sensing technology for seamless reading mode transitions
- Image capture and document scanning capabilities
- Omnidirectional reading of 1D, 2D and postal codes plus stacked, composite codes and dot codes; Digital Watermarks on specific models
- Choice of Bluetooth wireless technology version or Datalogic's STAR Cordless System (radio frequencies available in 433 MHz or 910 MHz)
- Wireless battery charging system
- Choice of WLC4090 adjustable position cradle with Scan-While-Charging capability or WLC4190 sleek desk/wall cradle with USB Type C connectivity
- Disinfectant-Ready enclosures withstand daily cleaning with harsh disinfectant solutions
- Specific black models with enclosures treated with anti-microbial additives available (ISO22196 compliant)
- EASEOFCARE Service Plans offer a wide range of service options to protect your investment, ensuring maximum productivity and ROI

INDUSTRIES - APPLICATIONS

Retail:
- Point of Sale

Light Manufacturing
- Work-in-progress
- Order processing

Healthcare:
- Laboratories
- Pharmacies
- In-room patient care

Access Control, Transportation and Entertainment

Commercial Services:
- Post offices
- Bank offices
- Public Administration
- Utilities

GRYPHON 4500 SERIES

TECHNICAL SPECIFICATIONS

CORDLESS MODELS COMMUNICATIONS

Gryphon GBT4500	**Bluetooth Wireless Technology** Piconet: Max. 7 readers per radio receiver (cradle and commercial dongle); Profiles: HID (Human Interface Device); SPP (Serial Port Profile); Protocol: Bluetooth 5.0 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
Gryphon GM4500	**Datalogic 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

DECODING CAPABILITY

1D / Linear Codes	Auto discriminates 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
OCR	OCR-A, OCR-B, MICR

CORDLESS MODELS 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 (Cradle)	4.5 - 14 VDC +/- 5% (WLC4090/WLC4190)

CORDED MODELS ELECTRICAL

Current	Operating: <400 mA @ 5V; < 200 mA @ 12V Standby/Idle: < 90 mA @ 5V; <50 mA @ 12V
Input Voltage	GD4520: 5 VDC; GD4590: 4.5 - 14.0 VDC

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-Condensing)	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	**CORDLESS MODELS:** WLC4090: USB / RS-232 Multi-Interface WLC4190: USB Type C / USB / RS-232 Multi-Interface **CORDED MODELS:** GD4520: USB type C / USB only GD4590: USB type C / USB / RS-232 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 (corded/cordless models) 21 x 7.5 x 10.9 cm / 8.2 x 2.9 x 4.2 in (In-Stand models)
Weight	161 g / 5.7 oz (corded models); 374 g / 13.2 oz (In-Stand models) 235 g / 8.29 oz (cordless models, battery included)

READING PERFORMANCE

Image Capture	Graphic Formats: BMP, JPEG, TIFF; Greyscale: 256, 16, 2
Imager 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); Datalogic Three Green Lights (3GL) Good-read feedback: Datalogic 'Green Spot' on the Code, Dual Good-read LEDs; Vibration feedback option available on cordless models
Resolution (Maximum)	High Density (HD): 1D Linear: 0.077 mm / 3 mils; PDF417: 0.077 mm / 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.

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/UPC: 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

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/UPC: 7.5 mils: 2.0 to 23.5 cm / 0.8 to 9.3 in
EAN/UPC: 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

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	Lowers service costs and improves operations

WARRANTY

Warranty	5-Year Factory Warranty (corded models) 3-Year Factory Warranty (cordless models)

ACCESSORIES

Base Stations / Chargers



WLC4090



WLC4190



MC-GM45

Mounts / Stands



RBP-GM45



11-036X



HLD-G041



STD-G041

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