GRYPHON™ 4500 HEALTHCARE

ODATALOGIC

Premium handheld scanners for corded or cordless value added Healthcare applications

WIRELESS CHARGING
CONTACTLESS, QUICK, CAREFREE

THE PURPOSE OF BAR CODE READERS IN THE HEALTHCARE INDUSTRY

The key mission of scanners in the healthcare industry is to improve the quality of patient care while reducing medication errors. Additionally, healthcare environments have requirements that scanners need to be regularly cleaned and disinfected. The Datalogic Gryphon™ HC product series is specifically developed for healthcare applications with Disinfectant-Ready enclosures treated with anti-microbial additives and are designed to withstand daily cleaning with harsh disinfectant solutions.

The Gryphon 4500-HC 2D readers can decode virtually any 1D and 2D bar code symbology and can read codes from LCD monitors, cell phones, smartphones and other mobile devices. High Density (HD) models are also available for reading smaller, condensed codes.

Ideally suited for stationary applications in administration, laboratory and hospital environments, the GD4500-HC 2D desktop model offers an affordable corded solution, while the GM4500-HC 2D or GBT4500-HC 2D cordless models (STAR or Bluetooth®) provide extended mobility for cordless operations.

Datalogic's distinctive reading technology with highly visible white or red-illumination is easier on the human eyes and reads colored labels better. The highly visible 4-Dot aimer provides a clear indication of the reading area, making targeting codes quick and easy. Datalogic's patented 'Green Spot' technology provides additional visual good-read confirmation which is ideal for quiet environments such as bedside patient care.

The vibration option coupled with the silent operating mode can also be set to further increase the patients' comfort.

One of the most important technical innovations that the Gryphon 4500 wireless readers achieve is the wireless charging system for the battery, which enhances the reliability of the entire solution, while lowering the total cost of ownership (no need for contact cleaning or maintenance procedures).

FEATURES

- Disinfectant-Ready enclosures treated with anti-microbial additives (ISO22196 compliant) withstand daily cleaning with harsh disinfectant solutions
- 1 MP optics for superior scanning and Depth of Field
- Extended reading distances and snappy reading of small, condensed, curved, poorly printed, and reflective bar codes
- Highly visible 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
- 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

PRODUCT	CHEMICAL CONTENT
Sani-Cloth® HB, Sani-Cloth® Plus, Super Sani-Cloth®	Quaternary Ammonium Chloride solution
Hepacide Quat II	Virucidal disinfectant cleaner
Alcohol Wipes	70% Isopropyl Alcohol
CaviWipes™	Isopropanol 10-20%; Ethylene Glycol Monobutyl Ether 1-5%
Virex® 256	n-Alkyl Dimethyl Benzyl Ammonium Chloride; Didecyl Dimethyl Ammonium Chloride
Formula 409® Glass and Surface Cleaner	n-Alkyl Dimethyl Benzyl Ammonium Chloride; n-Propoxypropanol
Windex® Blue	Isopropyl Alcohol
Clorox® Bleach; Clorox Healthcare Bleach Germicidal Cleaner	Sodium Hypochlorite; Sodium Hydroxide
Hydrogen Peroxide	3%
ProSpray™ Wipes (Disinfectant towelettes)	0.647% o-phenylphenol; 0.070% o-benzyl-p-chlorophenol
100% Gentle dish soap and water	

MEDITECH | Star CORDLESS SYSTEM | Bluetooth | Green 3GL | 4-DOT + AIMER | aladdin | GS1 | DATALOGIC 3 YEAR WARRANTY | DATALOGIC 5 YEAR WARRANTY

GRYPHON 4500 HEALTHCARE SERIES
TECHNICAL SPECIFICATIONS

CORDLESS MODELS COMMUNICATIONS

Gryphon GBT4500	**Bluetooth Wireless Technology** Piconet: Max. Readers per Radio Receiver: 7 Profiles: SPP (Serial Port Profile); Protocol: Bluetooth 4.0 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

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 / Keyboard Wedge Multi-Interface WLC4190: USB Type C / USB / RS-232 / Keyboard Wedge Multi-Interface **CORDED MODELS:** GD4520: USB type C / USB only GD4590: USB type C / USB / RS-232 / Keyboard Wedge Multi-Interface

PHYSICAL CHARACTERISTICS

Colors Available	Black, White (with light green plastic/rubber details)
Dimensions	16.6 x 6.8 x 10.9 cm / 6.5 x 2.7 x 4.3 in (corded/cordless models)
Weight	161 g / 5.7 oz (corded models); 235 g / 8.29 oz (cordless models, battery included)
Enclosure	Disinfectant-Ready enclosure treated with anti-microbial additives (ISO22196 compliant)

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 on specific models
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