GRYPHON™ 4500-HC 2D SERIES ◆DATALOGIC





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

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 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 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 like bedside patient care.

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).

















ALL PRODUCTS

- Disinfectant-Ready enclosures treated with anti-microbial additives (ISO22196 and JISZ 2801 compliant models available)
- Motionix[™] motion-sensing technology for seamless reading mode transitions
- Omnidirectional reading of 1D, 2D and postal codes plus stacked and composite codes
- Extremely snappy reading performance
- Extended reading distances and improved capability of reading small, condensed, curved, poorly printed, and reflective bar codes
- Advanced motion tolerance optics
- Highly visible 4-Dot aimer with center cross for targeted scanning
- Image capture and document scanning capabilities
- Datalogic's patented 'Green Spot' technology and exclusive 3GL™ (3 Green Lights) for superior good-read feedback
- USB Certified Kits Available
- ISO22196 Compliant Models Available

- Choice of Bluetooth wireless technology version 4.0 with BLE or Datalogic's STAR Cordless System (radio frequencies available in 433 MHz or 910 MHz)
- Datalogic's distinctive 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-lon battery
- Vibration feedback

GRYPHON™ I GD4500-HC 2D

ODATALOGIC

DECODING CAPABILITY

1D / LINEAR CODES 2D CODES

POSTAL CODES

STACKED CODES

MacroPDF; MicroPDF417; PDF417; UPC A/E

Autodiscriminates all standard 1D codes including GS1 DataBar™ linear codes. Aztec Code; China Han Xin Code; Data Matrix; MaxiCode; Micro QR Code; QR Code Australian Post; British Post; China Post; IMB; Japanese Post; KIX Post; Planet Code; Postnet; Royal Mail Code (RM4SCC) EAN/JAN Composites; GS1 DataBar Composites; GS1 DataBar Expanded Stacked; GS1 DataBar Stacked; GS1 DataBar Stacked Omnidirectional;

ELECTRICAL

CURRENT

Operating: <300 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 DROP RESISTANCE

FSD PROTECTION (AIR DISCHARGE) **HUMIDITY (NON-CONDENSING)** PARTICULATE AND WATER SEALING **TEMPERATURE**

0 - 100,000 lux

Withstands repeated drops from 1.8 m / 6.0 ft onto a concrete surface

16 kV 0 - 95% IP52

Operating: 0 to 50 °C / 32 to 122 °F

Storage/Transport: -40 to 70 °C / -40 to 158 °F

INTERFACES

INTERFACES

GD4520: USB only

GD4590: RS-232 / USB / Keyboard Wedge Multi-

PHYSICAL CHARACTERISTICS

COLORS AVAILABLE **DIMENSIONS** WEIGHT

Light Green/Light Grey (Rubber/Plastic) 16.6 x 6.8 x 10.9 cm / 6.5 x 2.7 x 4.3 in 161.0 g / 5.7 oz

READING PERFORMANCE IMAGE CAPTURE

IMAGER SENSOR LIGHT SOURCE

MOTION TOLERANCE PRINT CONTRAST RATIO (MINIMUM) READING ANGLE **READING INDICATORS**

RESOLUTION (MAXIMUM)

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

1 Megapixel: 1280 x 800 pixels Aiming: Red Laser 650 nm Illumination: Warm White 35 IPS

15%

Pitch: +/- 65°; Roll (Tilt): 360°; Skew (Yaw): +/- 65° Beeper (Adjustable Tone); Datalogic Three Green Lights (3GL) Good Read Feedback: Datalogic 'Green Spot' on the Code, Dual Good Read LEDs 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.

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

AGENCY APPROVALS

ENVIRONMENTAL COMPLIANCE LASER CLASSIFICATION

The product meets necessary safety and regulatory approvals for its intended use The Ouick 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

UTILITIES

WARRANTY

DATALOGIC ALADDIN™ OPOS / JAVAPOS

REMOTE HOST DOWNLOAD

Datalogic Aladdin configuration program is available for download at no charge JavaPOS and OPOS Utilities are available for

download at no charge. Lowers service costs and improves operations

5-Year Factory Warranty

WARRANTY

DATALOGIC DISINFECTANT-READY ENCLOSURES FOR **HEALTHCARE**

Datalogic offers bar code readers designed specifically for the healthcare industry with Disinfectant-Ready enclosures treated with anti-microbial additives that can help fight against the spreading of germs. This is particularly important if the scanner is traveling room-to-room on a medication cart with a nurse. The Disinfectant-Ready enclosures can withstand daily cleaning with harsh chemical cleaning solutions commonly used in a healthcare environment.



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
409® Glass and Surface Cleaner	n-Alkyl Dimethyl Benzyl Ammonium Chloride; n-Propoxypropanol
Windex® Blue	Isopropyl Alcohol
Clorox® Bleach	Sodium Hypochlorite; Sodium Hydroxide
100% Gentle dish soap and water	

REFER TO THE DEVICE INSTRUCTION MANUAL FOR PROPER CLEANING METHODS WHEN USING THESE CHEMICALS.

DISINFECTANTS SHOULD NOT BE SPRAYED OR POURED ONTO THE **SCANNER UNIT**

THE SCANNERS MUST ALWAYS BE WIPED DRY AFTER DISINFECTING.

TECHNICAL SPECIFICATION

GRYPHON™ I GM4500-HC 2D

ODATALOGIC

Graphic Formats: BMP, JPEG, TIFF;

1 Megapixel: 1280 x 800 pixels

Aiming: Red Laser 650 nm

Illumination: Warm White

Greyscale: 256, 16, 2

35 IPS

CORDLESS COMMUNICATIONS

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; Range distances are measured using the base station.

DECODING CAPABILITY

1D / LINEAR CODES 2D CODES

POSTAL CODES

STACKED CODES

Autodiscriminates all standard 1D codes including GS1 DataBar™ linear codes. Aztec Code; China Han Xin Code; Data Matrix; MaxiCode; Micro QR Code; QR Code Australian Post; British Post; China Post; IMB; Japanese Post; KIX Post; Planet Code; Postnet; Royal Mail Code (RM4SCC)

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

Battery Type: Lithium-Ion: 3250 mAh BATTERY

Charge Time: External Power: 4 Hours @ 12 VDC;

Reads per Charge: 80,000

CRADI F INDICATOR I FDS Battery Charging (flashing orange); Charge

Completed (steady green) 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 DROP RESISTANCE

ESD PROTECTION (AIR DISCHARGE) **HUMIDITY (NON-CONDENSING)**

PARTICULATE AND WATER SEALING

TEMPERATURE

0 - 100,000 lux

Withstands repeated drops from 1.8 m / 6.0 ft onto a concrete surface.

0 - 95%

IP52

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 DIMENSIONS WEIGHT **ENCLOSURE**

Light Green/Light Grey (Rubber/Plastic) 16.6 x 6.8 x 10.9 cm / 6.5 x 2.7 x 4.3 in

235 g / 8.29 oz

Disinfectant-Ready Enclosure Treated with Anti-Microbial Additives (ISO22196 and JISZ 2801

compliant models available)

READING PERFORMANCE

IMAGE CAPTURE IMAGER SENSOR LIGHT SOURCE

MOTION TOLERANCE PRINT CONTRAST RATIO (MINIMUM)

READING INDICATORS

READING ANGLE

RESOLUTION (MAXIMUM)

Read LEDs 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;

Pitch: +/- 65°; Roll (Tilt): 360°; Skew (Yaw): +/- 65°

Beeper (adjustable tone); Vibration feedback option available for quiet places; Datalogic

Three Green Lights (3GL) Good Read Feedback:

Datalogic 'Green Spot' on the Code, Dual Good

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.

GM4500 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

SAFETY & REGULATORY

AGENCY APPROVALS

ENVIRONMENTAL COMPLIANCE LASER CLASSIFICATION

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

UTILITIES

DATALOGIC ALADDIN™

REMOTE HOST DOWNLOAD

ΩΡΩς / ΙΔΙ/ΔΡΩς

Datalogic Aladdin configuration program is available for download at no charge. JavaPOS and OPOS Utilities are available for download at no charge.

Lowers service costs and improves operations

WARRANTY

WARRANTY

3-Year Factory Warranty

GRYPHON™ I GBT4500-HC 2D

ODATALOGIC

Graphic Formats: BMP, JPEG, TIFF;

1 Megapixel: 1280 x 800 pixels

Aiming: Red Laser 650 nm

CORDLESS COMMUNICATIONS

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

POSTAL CODES

2D CODES

PUSTAL CODES

STACKED CODES

Autodiscriminates all standard 1D codes including GS1 DataBar™ linear codes.
Aztec Code; China Han Xin Code; Data Matrix;
MaxiCode; Micro QR Code; QR Code
Australian Post; British Post; China Post; IMB;
Japanese Post; KIX Post; Planet Code; Postnet;

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

Battery Type: Lithium-Ion: 3250 mAh Charge Time: External Power: 4 Hours @ 12 VDC;

Gun Only: 330 mA @ 3.7 V (Operative) Cradle Only: 80 mA @ 5 V (Operative)

Battery Charging (flashing orange); Charge

Withstands repeated drops from 1.8 m / 6.0 ft

Storage/Transport: -40 to 70 °C / -40 to 158 °F

RS-232 / USB / Keyboard Wedge Multi-Interface

Reads per Charge: 80,000

Completed (steady green) Charging (Typical): < 6 W;

4.5 - 14 VDC +/- 5%

onto a concrete surface.

0 - 100,000 lux

0 - 95%

IP52

Composites

Royal Mail Code (RM4SCC)

ELECTRICAL

BATTERY

CRADLE INDICATOR LEDS

CURRENT

INPUT VOLTAGE

ENVIRONMENTAL

AMBIENT LIGHT DROP RESISTANCE

ESD PROTECTION (AIR DISCHARGE) HUMIDITY (NON-CONDENSING) PARTICULATE AND WATER SEALING

TEMPERATURE

INTERFACES
INTERFACES

INTERFACES

PHYSICAL CHARACTERISTICS

COLORS AVAILABLE DIMENSIONS WEIGHT ENCLOSURE Light Green/Light Grey (Rubber/Plastic) 16.6 x 6.8 x 10.9 cm / 6.5 x 2.7 x 4.3 in 235 g / 8.29 oz

Operating: 0 to 50 °C / 32 to 122 °F

Disinfectant-Ready Enclosure Treated with Anti-Microbial Additives (ISO22196 and JISZ 2801 compliant models available) READING PERFORMANCE
IMAGE CAPTURE

IMAGER SENSOR LIGHT SOURCE

MOTION TOLERANCE PRINT CONTRAST RATIO (MINIMUM) READING ANGLE

READING ANGLE READING INDICATORS Illumination: Warm White 35 IPS

Pitch: +/- 65°; Roll (Tilt): 360°; Skew (Yaw): +/- 65° Beeper (adjustable tone); Vibration feedback option available for quiet places; 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; PDF417: 0.077 mm / 3 mils;

Greyscale: 256, 16, 2

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.

GBT4500 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

GBT4500 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

AGENCY APPROVALS

ENVIRONMENTAL COMPLIANCE LASER CLASSIFICATION

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

UTILITIES

DATALOGIC ALADDIN™

OPOS / JAVAPOS

WARRANTY

WARRANTY

REMOTE HOST DOWNLOAD

Datalogic Aladdin configuration program is available for download at no charge. JavaPOS and OPOS Utilities are available for

download at no charge. Lowers service costs and improves operations

3-Year Factory Warranty

All Products
Mounts/Stands



■ 11-0362: Holder, Multi-Purpose, Grey



 HLD-G041-WH Desk/Wall Holder, G041. White



STD-G041-WH
Basic Stand, G041,
White

Cordless Products

Battery/Battery Charger

MC-GM45 Battery Charger, 4-Slot

RBP-GM45 Removable Battery Pack





Base Stations/Chargers

 WLC4090-HC-BT Base station; Wireless Charger; Multi-Interface; HC; Bluetooth

WLC4090-HC-433 Base station; Wireless Charger;
 Multi-Interface; HC; 433 MHz

WLC4090-HC-910 Base station; Wireless Charger;
 Multi-Interface; HC; 910 MHz

