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GRYPHON™ 4600 SERIES

DATALOGIC

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



LCA AND ECODESIGN TO REDUCE CARBON FOOTPRINT(*)

The Gryphon 4600 scanner series has been designed with an Ecodesign LCA-based approach, focused on reducing environmental impact through optimized energy efficiency, the use of recycled materials, minimized packaging volume and weight, and increased product durability.

AI BARCODE NEURAL DECODING

A powerful combination of a high-speed dual-core processor, AI-driven algorithms, and advanced neural network-based decoding technology delivers a significant boost in scanning performance. It enables faster decoding of both 1D and 2D barcodes, improves the readability of damaged, poorly printed, or distorted codes, and enhances performance when scanning on shiny, reflective, or curved surfaces.

EASY TO USE, INTUITIVE SCANNING

The Gryphon 4600 scanner delivers an unbeatable scanning experience thanks to the highly visible green central cross LED aimer for easier targeted scanning. Datalogic's 'Green Spot' technology, exclusive 3GL™ (3 Green Lights) and Vibration provide superior good-read feedback. The dual-color LED illumination technology, featuring warm white and red light user-selectable, allows to adapt to any application need on the fly.

FROM NEAR TO FAR, FAST READING

The Gryphon 4600 scanner delivers snappy reading performance on all common 1D and 2D codes, including GS1 Digital Link and Digital Watermarking, as well as smaller, high density, high resolution condensed codes and it also excels at reading barcodes from mobile devices. The dual-sensor optics powering the HP models deliver unprecedented capability to read codes from near to far distances, while the improved motion tolerance allows first pass decoding of fast-moving codes.

WIRELESS COMMUNICATIONS AND WIRELESS CHARGING

The Gryphon 4600 wireless solutions offers both Bluetooth 5.2 classic and low energy (BLE) wireless technology and Datalogic's STAR Cordless System (433/915 MHz radio frequencies). The recharge capability through an inductive charging system eliminates the need for contact cleaning and maintenance. This reliable wireless charging technology ensures 24/7 operation with no interruptions for maintenance or repair, maximizing productivity and performance.

BATTERY AND SUPERCAP POWER PACKS, LONG LASTING

The Gryphon 4600 wireless scanners can exploit both high-capacity LI-Ion battery pack or SuperCapacitor pack (battery free) providing fast charge and long lasting and for outstanding operating experience.

FEATURES

- Reader and base station plastic parts use over 70% recycled content and are 100% recyclable, reducing environmental impact.
- Dual optics 1.5MP + VGA sensors for superior scanning and Depth of Field
- Dual-core processor, AI (Artificial Intelligence) algorithms, and advanced decoding enhancements enable faster scanning speeds.
- Dual-color LED illumination technology, featuring warm white and red light user-selectable, for adapting to any application need on the fly.
- Highly visible green central cross LED aimer for easier 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
- Omnidirectional reading of 1D, 2D, GS1 Digital Link codes and image capture and OCR capabilities
- Choice of Bluetooth 5.2 classic and low energy (BLE) wireless technology or Datalogic's STAR Cordless System (433/915 MHz radio frequencies)
- Choice of high-capacity LI-Ion battery pack or SuperCapacitor pack for outstanding operating experience
- Wireless charging system to lower the total cost of ownership.
- White color / Healthcare models equipped with disinfectant-ready enclosures treated with anti-microbial additives (ISO22196 compliant) to withstand daily cleaning with harsh disinfectant solutions.
- EASEOFCARE Service Plans offer a wide range of service options to protect your investment, ensuring maximum productivity and ROI.

HD HP · Star · WIRELESS CHARGING · LED AIMER · aladdin · GREEN SPOT · GS1 · DATALOGIC 5 YEAR WARRANTY · DATALOGIC 5 YEAR WARRANTY

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

LIFE CYCLE CARBON EMISSIONS(*)

	Corded models	Cordless models (reader+base station)
	kg CO2 eq.	kg CO2 eq.
Avg.	46,38	250,11

(*) Product Carbon Footprint (PCF) study, conducted in accordance with ISO 14067-1:2018 and based on the Product Category Rules (PCR) [PCR 2024:06 V1.0.1, 2024-12-09].
This study represents a preliminary assessment.
LCA study available on www.datalogic.com.

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TECHNICAL SPECIFICATIONS

CORDLESS MODELS COMMUNICATIONS

Gryphon GBT4600 *(Bluetooth Wireless Technology)*	Bluetooth: 5.2, Classic & Low Energy (LE). Selectable output power: Class 1, 2, 3. Radio frequency: 2.4GHz. Radio range: 100.0 m / 328.0 ft (Class 1, open air, reader connected with the base station. Range with connection to other Bluetooth peripherals may show different results). Standard profiles: SPP (serial port emulation), HID (Human Interface Device) and HOGP (keyboard emulation). Max. n. of readers connected with the same base station: 7. Security: data encryption; scanner authentication
Gryphon GM4600 *(Datalogic STAR Cordless System)*	Working frequency: ISM Bands, 433.92 MHz and 915 MHz; Effective Radiated Power @433,92 Mhz < 10 dBm; Effective Radiated Power @915 Mhz < 15 dBm; Configurations: Point to Point and Point to Multipoint. Max. Readers per Radio Receiver: 16; Two Way Communications Radio Range: 50.0 m / 164.0 ft minimum (Open Air)

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; GS1 Digital Link
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: 3,250 mAh Charge Time: from empty to full 3,5 hours; from 10% to 80% 2 hours (@ 12 VDC external power) Number of scans from full charge: +80,000
SuperCap Capacitor	Capacity: 1000 F Charge time: from empty to full 30 min ; from 10% to 80% 10 min. (@ 12 VDC ext. power); Number of scans from full charge: 7,000
Cradle Indicator LEDs	Battery/SuperCap Charging (flashing orange); Charge Completed (steady green)
Current	Charging (Typical): < 6 W; Scanner only: 300 mA @ 3.7 V (Operative) Cradle only: 100 mA @ 5 V (Operative)
Input Voltage (Cradle)	4.5 - 14 VDC +/- 5% (WLC4090/WLC4190/WLC4690)

CORDED MODELS ELECTRICAL

Current	Operating: <300 mA @ 5V; < 150 mA @ 12V Standby/Idle: < 70 mA @ 5V; <40 mA @ 12V
Input Voltage	GD4690 (HP models): 4,5 - 14,0 VDC +/- 5% GD4620 (HD models): 5 VDC +/- 5%

ENVIRONMENTAL

Ambient Light	0 - 110,000 lux
Drop Resistance	Withstands repeated drops from 1.8 m / 6.0 ft onto a concrete surface.
Tumble Specification	Designed to withstand 2,000 1.5 ft./0.5 m tumbles
Trigger Resistance	Withstands 10 Mhits
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:** WLC4690: USB Type C / USB / RS-232 Multi-Interface **CORDED MODELS:** GD4620 (HD models): USB type C / USB only GD4690 (HP models): USB type C / USB / RS-232 Multi-Interface

PHYSICAL CHARACTERISTICS

Colors Available	Black, White
Dimensions	18 x 6.5 x 7.9 cm / 7.1 x 2.6 x 3.1 in (corded/cordless models) 21 x 7.5 x 10.9 cm / 8.2 x 2.9 x 4.2 in (corded models with presentation mode base)
Weight	144 g / 5.1 oz (corded models) 426 g / 15.0 oz (corded models with presentation mode base) 218 g / 7.7 oz (cordless models, battery included)

READING PERFORMANCE

Image Capture	Graphic Formats: BMP, JPEG, TIFF; Greyscale: 256, 16, 2
Imager Sensor	High Performance models (HP, dual sensor): 1.5 Megapixel (1360 x 1120 pixels) + VGA (640 x 600 pixels) High Density models (HD, single sensor): 1.5 Megapixel (1360 x 1120 pixels)
Light Source	Aiming: LED Green central cross Illumination: dual color Warm White and Hyper Red LED
Motion Tolerance	70 IPS
Print Contrast Ratio (Minimum)	15%
Reading Angle	Pitch: +/- 65°; Roll (Tilt): 360°; Skew (Yaw): +/- 65°
Reading Indicators	Beeper (adjustable tone); Good-read feedback: Datalogic 'Green Spot' on the Code; Good-read LED; Vibration feedback option (cordless models)
Resolution (Maximum)	1D Linear: 0.077 mm / 3 mils; PDF417: 0.077 mm / 3 mils; Data Matrix: 0.102 mm / 4 mils

READING RANGES

Typical Depth of Field	Label size, printing resolution, contrast, and ambient light dependent. (*) Minimum distance determined by symbol length and scan angle.

High Performance Models (HP)	***High Density Models (HD)***
Code 39: 3 mils: 2.5 to 20.0 cm / 1.0 to 7.9 in	Code 39: 3 mils: 2.5 to 15.0 cm / 1.0 to 5.9 in
Code 39: 5 mils: 0.5 to 35.0 cm / 0.2 to 13.8 in	Code 39: 5 mils: 0.5 to 22.0 cm / 0.2 to 8.7 in
Code 39: 10 mils: 0(*) to 60.0 cm / 0(*) to 23.6 in	Code 39: 10 mils: 0(*) to 35.0 cm / 0(*) to 13.8 in
Code 39: 20 mils: 0(*) to 125.0 / 0(*) to 49.2 in	Code 39: 20 mils: 0(*) to 52.0 / 0(*) to 20.5 in
Code 128: 3 mils: 3.5 to 14.5 cm / 1.4 to 5.7 in	Code 128: 3 mils: 3.5 to 11.5 cm / 1.4 to 4.5 in
Code 128: 5 mils 1.5 to 30.0 cm / 0.6 to 11.8 in	Code 128: 5 mils 1.5 to 20.0 cm / 0.6 to 7.9 in
EAN/UPC: 13 mils: 0(*) to 100.0 cm / 0(*) to 39.4 in	EAN/UPC: 13 mils: 0(*) to 50.0 cm / 0(*) to 19.7 in
PDF417: 5 mils: 2.5 to 17.0 cm / 1.0 to 6.7 in	PDF417: 5 mils: 2.5 to 15.0 cm / 1.0 to 5.9 in
PDF 417: 10 mils: 0.5(*) to 38.5 cm / 0.2(*) to 15.2 in	PDF 417: 10 mils: 0.5(*) to 27.0 cm / 0.2(*) to 10.6 in
Data Matrix: 5 mils: 3.5 to 10.0 cm / 1.4 to 3.9 in	Data Matrix: 5 mils: 3.5 to 10.0 cm / 1.4 to 3.9 in
Data Matrix: 10 mils: 0.5(*) to 29.5 cm / 0.2(*) to 11.6 in	Data Matrix: 10 mils: 0.5(*) to 20.0 cm / 0.2(*) to 7.9 in
QR Code: 10 mils: 0.5(*) to 25.0 cm / 0.2(*) to 9.8 in	QR Code: 10 mils: 0.5(*) to 20.0 cm / 0.2(*) to 7.9 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

UTILITIES

Datalogic Aladdin™	Datalogic Aladdin configuration program is available for download at no charge.
Datalogic Connect	The next-generation IoT cloud platform that empowers organizations to remotely control, manage, and gain actionable insights from all their deployed Datalogic devices.
OPOS / JavaPOS / SDK	JavaPOS, OPOS and SDK for Android 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


WLC4690-BK/HC


PA-WLC4690-BK/HC


CC-WLC4690-BK/HC


MC-GM45

Mounts / Stands


RBP-GM46/
RSP-GM46


11-036X


PM-BASE-GD46-BK


HLD-G041


STD-G041

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