

**BEST FOR YOU  
BETTER FOR THE ENVIRONMENT**

**Think green. Work smart.**



**Gryphon™ 4600** 

**DATALOGIC**  
EMPOWER YOUR VISION

# OVERVIEW

The new Gryphon 4600 series is a premium line of high-performance handheld scanners designed for advanced applications in Retail, Healthcare, Manufacturing and Transportation & Logistics.



## Sustainable

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.



## Powerful and Snappy

**Performance-wise**, it delivers **fast and accurate** reading of all common **1D and 2D codes**, including **GS1 Digital Link**, Digital Watermarking, and dense **high-resolution** codes.

**Dual-sensor optics** (HP models) enable reliable scanning from **near to far** distances, while advanced AI algorithms and a powerful **dual-core processor** boost **speed** and motion tolerance for first-pass reads of moving codes.



## User-friendly and intuitive

**User-friendly and intuitive**, it offers a bright **green central cross LED aimer** for precise targeting, complemented by Datalogic's recognized **Green Spot, 3GL™** (3 Green Lights), and vibration feedback.

**Dual-color LED illumination** (warm white and red) adapts instantly to any scanning requirement.

Wireless connectivity includes **Bluetooth 5.2** (classic and BLE) and **Datalogic's STAR** Cordless System, paired with inductive **wireless charging** that eliminates contact wear and maintenance, ensuring continuous 24/7 operation.

Power options include **high-capacity Li-Ion batteries** or maintenance-free **SuperCap** packs, both offering **fast charging** and **long-lasting** use for exceptional reliability.



# GRYPHON™ 4600



# GRYPHON™ 4600

## SUSTAINABLE INNOVATION



### REDUCE THE ENVIRONMENTAL IMPACT

- Reduce power consumption
- Reduce number of components
- Select and use less impacting materials



### IMPROVE CIRCULARITY

- Use recycled materials
- Design for easy recycling
- Design for easy dismount (non-destructive)



### ENHANCE DURABILITY AND REPARABILITY

- Reliability
- Modularity and Standardization
- Design for easy repairs (access, instructions, spare parts)

## TOUR ON SUSTAINABILITY

**Sustainability** is vital for the B2B market as companies must respond to the growing demand from stakeholders, regulators and customers to **operate responsibly** and **reduce environmental impact**.

Adopting sustainable practices strengthens supply chain resilience, improves long-term cost efficiency and brand reputation.

Many companies prefer partners who adopt **environmental, social and governance (ESG) practices**. **Sustainability** becomes a **factor of competitiveness**.

With sustainability, B2B companies promote trust, meet compliance requirements and contribute to a better global economy.

The **Datalogic Group** has a long-term sustainability strategy that aims to **reduce environmental impact**, **improve quality**, products and services, and **strengthen social responsibility** with **measurable and constantly evolving objectives**.

Sustainability is fundamental in relations with stakeholders and the supply chain of the Datalogic Group. The new products are designed to ensure **durability and recyclability**, as required by the **circular economy**.

**Datalogic R&D** gives priority to **energy efficiency**, the **use of recycled materials** and the development of **eco-certified products**, with initiatives such as the use of **recycled plastic** for the **new Gryphon 4600** series of scanners, which has a completely recyclable casing.

Packaging is also optimized to reduce weight and **increase recyclability** and **meet customer and investor expectations**.

The **new Gryphon 4600** scanner series is **the first product in its category** developed with an Eco-Design LCA-based approach.

Datalogic has identified the areas with the greatest environmental impact and directed its innovation efforts toward solutions that elevate sustainability while delivering outstanding performance and an exceptional user experience.

# GRYPHON™ 4600

## ECO-DESIGN INITIATIVES

### REDUCE THE ENVIRONMENTAL IMPACT



- 10%** of plastic (-4 tons/year)
- 94%** of rubber (-8 tons/year)
- 49%** of packaging plastic (-1.4 tons/year)
- 19%** of packaging cardboard (-9 tons/year)
- 99%** of not recyclable plastic

### IMPROVE CIRCULARITY



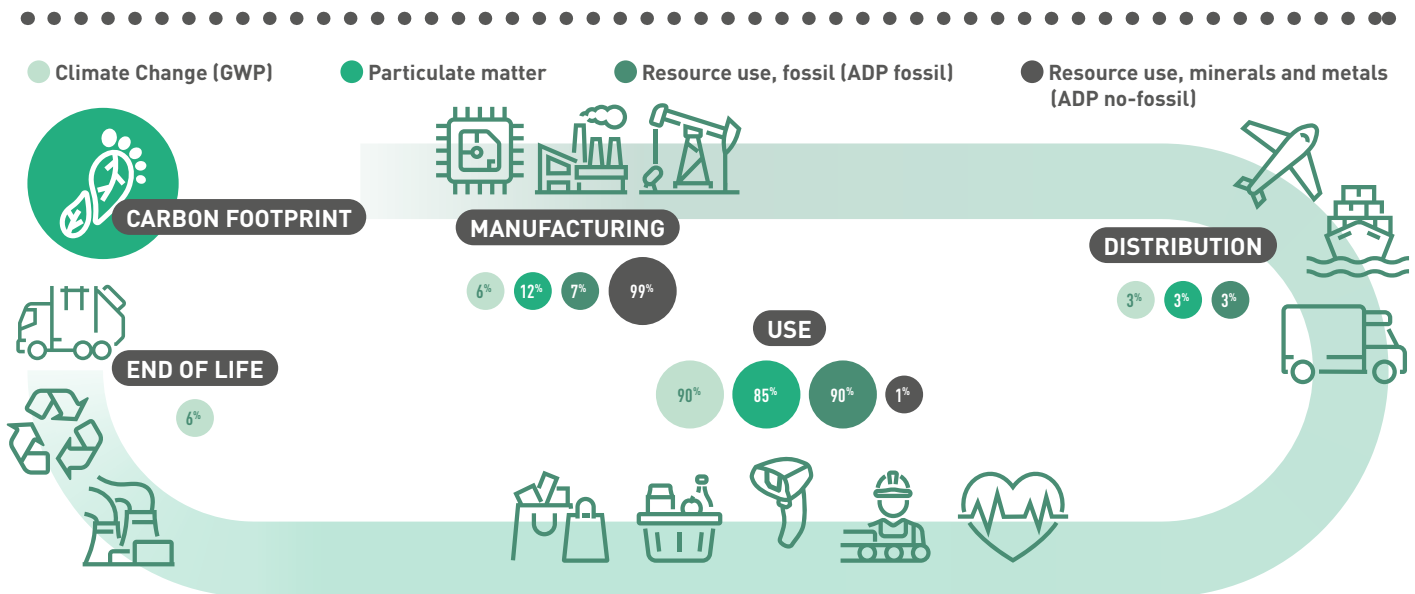
- 86%** of virgin plastic (-37 tons/year)
- 43 tons/year** of virgin plastic replaced with:
- 39 tons/year** of 85% PCR recycled plastic

### ENHANCE DURABILITY AND REPARABILITY



- 50%** of internal screws
- DESIGN ENHANCE** from Repairs Data Analysis
- MODULAR DESIGN** for corded hand-free base
- NEW FIXING SOLUTIONS** without glue and screws

\* The percentage values refer to the difference compared to the previous version of the product. The reduction in impact in tons/year is calculated by comparing the production of the new product over one year with the production of the previous version of the product, assuming the same number of units.



### LIFE CYCLE CARBON EMISSIONS\*

	Corded models	Corded models (reader + base station)
	kg CO2 eq.	kg CO2 eq.
Avg.	46	250

\* 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](http://www.datalogic.com)



# TARGET INDUSTRIES AND APPLICATIONS

The Gryphon 4600 series combines outstanding versatility with a broad selection of specialized models, making it the ideal solution for a wide variety of industries and applications — from retail and healthcare to manufacturing and transport & logistics.

## RETAIL



- Point of Sale (POS)
- Attended lane
- Self check-out

Cashiers will benefit from faster scanning of traditional EAN/UPC codes as well as the new GS1 Digital Link emerging standard, along with an extended reading range—from close-up scans to the bottom of shopping carts. Combined with a lighter design and improved ergonomics, the scanner helps reduce operator fatigue during long shifts.

## HEALTHCARE



- In-room patient care
- Laboratories
- Pharmacies

Nurses and healthcare professionals will benefit from fast and accurate scanning of small, curved, reflective, or poorly printed barcodes on medication and patient wristbands. The plastic, infused with antimicrobial silver-ion additives, resists germs and bacteria and withstands harsh disinfectants, making it ideal for hygiene-critical industries.

## MANUFACTURING



- Work in progress
- Sub-assembly
- Quality control
- Order processing
- Traceability
- Document handling

Operators will appreciate the enhanced first-pass scanning capabilities for high-density, high-resolution, mirrored, and reverse barcodes, as well as DPM (Direct Part Marking) codes. Increased durability and reliability further support demanding industrial environments.

## TRANSPORTATION AND LOGISTICS



- Postal document handling
- Airport (attended check-in self check-in label scanning)

Employees in postal and logistics operations can count on fast, dependable barcode capture—even when codes are difficult, damaged, or shown on a smart-phone screen. Built for long-term performance, its rugged design and extended lifecycle significantly cut down on maintenance, repairs, and replacements, delivering lasting value and clear savings over time.

# GRYPHON™ 4600

## KEY FEATURES

### ECODESIGN LCA-BASED



#### PRODUCT FEATURES

Gryphon 4600 product development prioritizes sustainability, focusing on optimized energy efficiency, the use of recycled materials, reduced packaging size and weight, and enhanced product durability.

#### BENEFITS FOR CUSTOMER

The use of eco-designed products helps customers achieve sustainability objectives in the field of corporate social responsibility (CSR) or environmental, social and governance (ESG) relationships

- to reduce environmental and carbon impact
- to reduce the costs of using the devices
- to reduce the effort required to dispose of the contents of the packaging

### AI BARCODE NEURAL DECODING



#### PRODUCT FEATURES

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.

#### BENEFITS FOR CUSTOMER

- Faster decoding of 1D and 2D barcodes.
- Better readability of damaged, poorly printed or distorted code
- Improved performance when scanning codes on shiny, reflective or curved surfaces

### FAST SCANNING AT ANY DISTANCE



#### PRODUCT FEATURES

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.

#### BENEFITS FOR CUSTOMER

- Cashiers can easily scan items from the belt or bottom of the cart
- In the automatic checkout, customers can easily scan items, including heavy or bulky ones on the floor
- Reads small, high-density, high-resolution codes on the first try
- Convenient for scanning e-tickets, boarding passes, coupons and loyalty cards from screens
- Improve efficiency by reading corrupted and difficult-to-scan code on paper, plastic or screens

### USER FRIENDLY & INTUITIVE



#### PRODUCT FEATURES

The highly visible green central cross LED aimer makes targeted scanning effortless. Datalogic's exclusive technologies—'Green Spot,' 3GL™ (3 Green Lights), and Vibration—deliver superior good-read feedback. Dual-color LED illumination, with user-selectable warm white or red light, lets you adapt instantly to any application.

#### BENEFITS FOR CUSTOMER

- Bright green LED aimer ensures precise targeting
- WHITE lighting helps in color barcode decoding, image capture and customer-facing applications
- RED lighting excels in most apps and supports Digimarc®
- Green Spot technology provides superior good read feedback

### BATTERY AND SUPERCAP POWER PACKS



#### PRODUCT FEATURES

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.

#### BENEFITS FOR CUSTOMER

- The innovative SuperCapacitor, battery-free architecture redefines convenience — eliminating battery replacements, minimizing downtime, and keeping productivity seamless and uninterrupted.
- The long-lasting Li-Ion battery delivers outstanding performance, providing over 80 hours of autonomy or more than 80,000 scans. Its expected lifetime exceeds five years, ensuring reliable operation and reduced maintenance costs.

### DATALOGIC CONNECT SDK



#### PRODUCT FEATURES

Datalogic Connect is the next-generation IoT cloud platform that empowers organizations to remotely control, manage, and gain actionable insights from all their deployed Datalogic devices. The SDK Speeds up Android POS and kiosk app development.

#### BENEFITS FOR CUSTOMER

- Customers can easily manage all installed base units
- Boost productivity by identifying underperforming devices
- Cut labor costs by controlling the installed base from one point
- The SDK eases integration with Datalogic devices.



# GRYPHON™ 4600

## TECHNICAL SPECIFICATIONS

### CORDLESS MODELS COMMUNICATIONS

<b>Gryphon GBT4600</b> (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
<b>Gryphon GM4600</b> (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

<b>1D / Linear Codes</b>	Auto discriminates all standard 1D codes including GS1 DataBar™ linear codes.
<b>2D Codes</b>	Aztec Code; China Han Xin Code; Data Matrix; MaxiCode; Micro QR Code; QR Code; Dot Code; GS1 Digital Link
<b>Postal Codes</b>	Australian Post; British Post; China Post; IMB; Japanese Post; KIX Post; Planet Code; Postnet; Royal Mail Code (RM4SCC)
<b>Stacked Codes</b>	EAN/JAN Composites; GS1 DataBar Composites; GS1 DataBar Expanded Stacked; GS1 DataBar Stacked; GS1 DataBar Stacked Omnidirectional; MacroPDF; MicroPDF417; PDF417; UPC A/E Composites
<b>Digital Watermarking</b>	Digimarc Barcodes
<b>OCR</b>	OCR-A, OCR-B, MICR

### CORDLESS MODELS ELECTRICAL

<b>Battery</b>	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
<b>SuperCap Capacitor</b>	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
<b>Cradle Indicator LEDs</b>	Battery/SuperCap Charging (flashing orange); Charge Completed (steady green)
<b>Current</b>	Charging (Typical): < 6 W; Scanner only: 300 mA @ 3.7 V (Operative) Cradle only: 100 mA @ 5 V (Operative)
<b>Input Voltage (Cradle)</b>	4,5 - 14 VDC +/- 5% (WLC4090/WLC4190/WLC4690)

### CORDED MODELS ELECTRICAL

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

### ENVIRONMENTAL

<b>Ambient Light</b>	0 - 110,000 lux
<b>Drop Resistance</b>	Withstands repeated drops from 1.8 m / 6.0 ft onto a concrete surface.
<b>Tumble Specification</b>	Designed to withstand 2,000 1.5 ft./0.5 m tumbles
<b>Trigger Resistance</b>	Withstands 10 Mhits
<b>ESD Protection (Air Discharge)</b>	16 kV
<b>Humidity (Non-Condensing)</b>	0 - 95%
<b>Particulate and Water Sealing</b>	IP52
<b>Temperature</b>	Operating: 0 to 50 °C / 32 to 122 °F Storage/Transport: -40 to 70 °C / -40 to 158 °F

### INTERFACES

<b>Interfaces</b>	<b>CORDLESS MODELS:</b> WLC4690: USB Type C / USB / RS-232 Multi-Interface <b>CORDED MODELS:</b> GD4620 (HD models): USB type C / USB only GD4690 (HP models): USB type C / USB / RS-232 Multi-Interface
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### PHYSICAL CHARACTERISTICS

<b>Colors Available</b>	Black, White
<b>Dimensions</b>	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)
<b>Weight</b>	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

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

### READING RANGES

<b>Typical Depth of Field</b>	Label size, printing resolution, contrast, and ambient light dependent. (*) Minimum distance determined by symbol length and scan angle.
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<b>High Performance Models (HP)</b>	<b>High Density Models (HD)</b>
Code 39: 3 mils: 2.5 to 20.0 cm / 1.0 to 7.9 in Code 39: 5 mils: 0.5 to 35.0 cm / 0.2 to 13.8 in Code 39: 10 mils: 0(*) to 60.0 cm / 0(*) to 23.6 in Code 39: 20 mils: 0(*) to 125.0 cm / 0(*) to 49.2 in Code 128: 3 mils: 3.5 to 14.5 cm / 1.4 to 5.7 in Code 128: 5 mils: 1.5 to 30.0 cm / 0.6 to 11.8 in EAN/UPC: 13 mils: 0(*) to 100.0 cm / 0(*) to 39.4 in PDF417: 5 mils: 2.5 to 17.0 cm / 1.0 to 6.7 in PDF 417: 10 mils: 0.5(*) to 38.5 cm / 0.2(*) to 15.2 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 QR Code: 10 mils: 0.5(*) to 25.0 cm / 0.2(*) to 9.8 in	Code 39: 3 mils: 2.5 to 15.0 cm / 1.0 to 5.9 in Code 39: 5 mils: 0.5 to 22.0 cm / 0.2 to 8.7 in Code 39: 10 mils: 0(*) to 35.0 cm / 0(*) to 13.8 in Code 39: 20 mils: 0(*) to 52.0 cm / 0(*) to 20.5 in Code 128: 3 mils: 3.5 to 11.5 cm / 1.4 to 4.5 in Code 128: 5 mils: 1.5 to 20.0 cm / 0.6 to 7.9 in EAN/UPC: 13 mils: 0(*) to 50.0 cm / 0(*) to 19.7 in PDF417: 5 mils: 2.5 to 15.0 cm / 1.0 to 5.9 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: 10 mils: 0.5(*) to 20.0 cm / 0.2(*) to 7.9 in QR Code: 10 mils: 0.5(*) to 20.0 cm / 0.2(*) to 7.9 in

### SAFETY & REGULATORY

<b>Agency Approvals</b>	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.
<b>Environmental Compliance</b>	Complies to China RoHS; Complies to EU RoHS

### UTILITIES

<b>Datalogic Aladdin™</b>	Datalogic Aladdin configuration program is available for download at no charge.
<b>Datalogic Connect</b>	The next-generation IoT cloud platform that empowers organizations to remotely control, manage, and gain actionable insights from all their deployed Datalogic devices.
<b>OPOS / JavaPOS / SDK</b>	JavaPOS, OPOS and SDK for Android Utilities are available for download at no charge.
<b>Remote Host Download</b>	Lowers service costs and improves operations

### WARRANTY

<b>Warranty</b>	5-Year Factory Warranty (corded models) 3-Year Factory Warranty (cordless models)
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