

### Overview

### Datalogic GBT4500 Wireless Barcode Scanner\*



\*Option to charge with micro-USB cable.

### Scanner Models

Datalogic GBT4500 Wireless Barcode Scanner

4P886AA

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### Charging Bases (one is required; sold separately from the scanner)

#### Datalogic 4090



Datalogic 4090 Charging Base

4P775AA

#### Datalogic 4190



Datalogic 4190 Slim Charging Base

4P776AA

### Overview

#### Key Features and Benefits

- 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 and composite codes and dot codes;
  - Bluetooth® wireless technology version 4.0
  - 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 (one of the two options is required; sold separately)
  - Batch Mode capability
  - Point-to-point / Point-to-multi-point transmission
  - Long- lasting user-replaceable Lithium-Ion battery
  - Disinfectant-ready enclosures withstand daily cleaning with harsh disinfectant solutions.
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### Overview

### Compatibility

The Datalogic GBT4500 Wireless Barcode Scanner is compatible with all HP Point of Sale Systems.

**NOTE:** Not all Point of Sale system models are available in all regions.

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### Service and Support

Three- (3) year limited HP warranty on the scanner with advanced exchange when purchased from HP.

One- (1) year limited warranty on the user-replaceable scanner battery. Customers having a battery issue in the first year should contact HP Service.

For battery replacement after the 1-year warranty period, customers can order the Datalogic SKU RBP-GM45 from their local reseller in their territory.

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### Technical Specifications

#### General

##### Reading Performance

##### Image Capture

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

##### Image Sensor

1 Megapixel: 1280 x 800 pixels

##### Light Source

Aiming: Red Laser 650 nm  
Illumination: Warm White(4P886AA);

##### Motion Tolerance

35 IPS

##### Print Contrast Ratio (Minimum)

15%

##### Reading Indicators

Beeper (adjustable tone); Vibration Feedback for Good Read 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)

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 Model (4P886AA)

##### Depth of Field

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

##### Reading Angle

##### Roll (tilt)

360°

##### Pitch

± 65°

##### Skew (Yaw)

± 65°

##### 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

### Technical Specifications

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

#### Mechanical

**Dimensions (W x D x H)** 16.6 x 6.8 x 10.9 cm / 6.5 x 2.7 x 4.3 in  
**Weight** 235 g / 8.29 oz (includes battery)  
**Color** Black

#### Interface/Connection

**Interface** 4090: USB/ RS-232 / Keyboard Wedge Multi-Interface  
4190: USB Type-C®/ USB/ RS-232/ Keyboard Wedge Multi-Interface  
**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

#### Temperature

**Operating** 0 to 50 °C (32 to 122 °F)  
**Storage/ Transport** -40 to 70 °C (-40 to 158 °F)  
**Humidity (non-condensing)** 0 – 95%

#### Electrical

**Input Voltage** 4.5 - 14VDC±5% (4090/ 4190 charging bases)  
**Current** Charging (Typical): < 6 W  
Scanner only: 330 mA @ 3.7 V (Operative)  
Cradle only: 80 mA @ 5 V (Operative)  
**Cradle Indicator LEDs** Battery Charging (flashing orange)  
Charge Completed (steady green)  
**Battery** Battery Type: Lithium-Ion: 3250 mAh  
Charge Time: External Power: 4 Hours @ 12 VDC  
Reads per Charge: 80,000

### Technical Specifications

#### Environmental

<b>Ambient Light</b>	0 - 100,000 lux
<b>Drop Resistance</b>	Withstands repeated drops from 1.8 m / 6.0 ft onto a concrete surface.
<b>ESD Protection (Air Discharge)</b>	16 kV
<b>Particulate and Water Sealing</b>	IP52

#### Agency Certifications

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

#### OS Support

##### Windows

Windows 10 IoT Enterprise 2019 LTSC 64-bit (RS5-based)

Windows 10 IoT Enterprise 2016 LTSB 64-bit (RS1-based)

##### Linux

CentOS 6.9 (32-bit and 64-bit) and above, (64-bit only starting with version 8)

SUSE Linux Enterprise 12 SP3 (32-bit and 64-bit) and above, (64-bit only starting with version 15)

Ubuntu 16.04 LTS (32-bit and 64-bit) and above, (64-bit only starting with version 18.04)

#### 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.

#### Scanner Kit Contents

Datalogic GBT4500 Wireless Barcode Scanner, documentation, warranty card. A charging base is required but sold separately.

#### Wireless Charging Base Kit Contents

The 4090 and 4190 charging bases include the charging base, metal fitting bracket (to fix the base station to a desk, wall, or cart), documentation, warranty card, and a 6-ft/ 2m USB Type A to RJ45 cable.

## Technical Specifications

## GBT4500 Battery Charging Options

**Direct battery charge via the reader's Micro-USB port (no charging base needed)**

- Slow-charge mode: Connect a USB Type A to Micro-USB cable (e.g., Datalogic cable P/N 94A051968 or any commercial equivalent) to the scanner and to a PC/POS. Fully depleted battery recharge time: approx. 4.6 hours (typical).
- Fast-charge mode: Connect a Micro-USB power supply (e.g. Datalogic power supply P/N 94ACC1380) to the scanner, or connect a USB Type A to Micro-USB cable (e.g. Datalogic P/N 94A051968 or any commercial equivalent) to the scanner and to a commercial wall charger with a USB Type A port. Fully depleted battery recharge time: approx. 2 hours (typical).

**Battery charging via the 4090 charging base**

- Slow-charge mode: Connect the 4090 charging base to a PC/POS through the Datalogic USB type A to RJ45 cable (Datalogic P/N 90A052258 included in the 4090 charging base box). Fully depleted battery recharge time: approx. 11 hours (typical).
- Fast-charge mode: Connect the 4090 charging base to the Datalogic power supply (Datalogic P/N 8-0935 + the local power cord, e.g., Datalogic P/N 6003-0941 for USA). Fully depleted battery recharge time: approx. 3 hours (typical).
- Charging times will be 20% faster when the battery profile is set to "fast charge" via the Datalogic Aladdin software tool.

**Battery charging via the 4190 charging base**

- Slow-charge mode: Connect the 4190 charging base to a PC/ POS with the USB Type A to RJ45 cable (Datalogic P/N 90A052258 included in the 4190 charging base box). Fully depleted battery recharge time: approx. 11 hours (typical).
- Fast-charge mode: Connect the 4190 charging base to a PC/ POS with the USB Type C to RJ45 cable (Datalogic P/N 90A052355 or 90A052360). Fully depleted battery recharge time: approx. 3 hours (typical).
- Fast charge mode: Connect the 4190 charging base to a PC/ POS with the USB Type A to RJ45 splitter cable and connect the power supply to this splitter cable. Fully depleted battery recharge time: approx. 3 hours (typical).

HP AMO part number (includes 1.2M/ 3.9 ft splitter cable and power supply):

AMS: AOEK1AA#ABA

EMEA: AOEK1AA#ABB

Australia: AOEK1AA#ABG

APJ: Datalogic part numbers for 3PS:

USB Type A to RJ45 splitter cable: Datalogic P/N: 90A052361 (1.2M/ 3.9 ft) or P/N: 90A052356 (3M/ 9.8 ft)

Power supply: Datalogic P/N: 8-0935

- Charging times will be 20% faster when the battery profile is set to "fast charge" via the Datalogic Aladdin software tool.

**Optional Accessories**

**Cart Clip:** Improves the scanner retention and prevents it from dropping out of the base, in case of shocks, bumps or vibration (e.g. when used on medical carts).

Cart clip for use with WLC4190 Wireless Charging Base Station

Part number: CC-4190-BK (black)

Can be ordered from Datalogic or distributors

Cart Clip for use with WLC4090 Wireless Charging Base Station

Part number: CC-G045-HC (white)

Can be ordered from Datalogic or distributors

Mounting Adapter for use with WLC4190 Wireless Charging Base Station

### Technical Specifications

Enables customer to fix the base station to a desk, wall, or cart. For customers who would like studs or screws to be screwed into threaded brass screw holes. (Otherwise, the metal fitting bracket, included standard with the charging stations, can be used.)

Part Number: MA-4190-BK

Can be ordered from Datalogic or distributors

Power Supply: it enables the customers to exploit the fast charge option to shorten the battery recharge time

Power Adapter for use with WLC4090 and WLC4190 Wireless Charging Base Station

Part number: 8-0935 (Requires Datalogic Power Cord P/N 6003-XXXX)

Datalogic Power Cords:

- Power Cord, 240V, UK: 6003-0923
- Power Cord, 220V, Italy/Chile: 6003-0924
- Power Cord, 220V, Australia: 6003-0925
- Power Cord, AC, IEC/EU: 6003-0940
- US Power Cord, 110V, US, Standard: 6003-0941
- Power Cord, IEC C13, Brazil: 6003-0942

Power Adapter for use with GBT4500 Wireless Barcode Scanner

Part number: 94ACC1380

Key Datalogic cables:

- Cable, USB, Type A, TPUW, Straight, 2M, Black: 90A052258 **(included with WLC4090 and WLC4190 charging bases)**
  - Cable, USB, Type C, High Current, PVCW, Straight, 3M, Black (for use with WLC4190 Wireless Charging Base Station): 90A052355
  - Cable, USB, Type A, External Power, High Current, PVCW, Straight, 3M, Black (for use with WLC4X90 Wireless Charging Base Station): 90A052356
  - Cable, USB, Type C, High Current, PVCW, Straight, 1.2M, Black (for use with WLC4190 Wireless Charging Base Station): 90A052360
  - Cable, USB, Type A, External Power, High Current, PVCW, Straight, 1.2M, Black (for use with WLC4X90 Wireless Charging Base Station): 90A052361
  - Cable, USB, Type A, microUSB 2M straight (for use with GBT4500 Wireless Barcode Scanner): 94A051968
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### Summary of Changes

Date of change:	Version History:		Description of change:
December 16, 2021	From v1 to v2	Changed	Service and Support section
January 25, 2022	From v2 to v3	Added	GBT4500 Battery Charging Options section
		Changed	Optional Accessories section
February 24, 2022	From v3 to v4	Changed	Service and Support section
September 12, 2022	From v4 to v5	Changed	Key Features and Benefits section
April 3, 2023	From v5 to v6	Changed	Key Features and Benefits section
April 25, 2023	From v6 to v7	Removed	Datalogic GBT4500 Wireless Barcode Scanner with Digimarc
August 7, 2023	From v7 to v8	Changed	Format
August 24, 2023	From v8 to v9	Changed	GBT4500 Battery Charging Options section
May 3, 2024	From v9 to v10	Changed	GBT4500 Battery Charging Options section
May 11, 2024	From v10 to v11	Changed	GBT4500 Battery Charging Options section
September 22, 2025	From v11 to v12	Changed	GBT4500 Battery Charging Options section

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