

Overview

Datalogic GBT4500 Wireless Barcode Scanner*

Datalogic GBT4500 Wireless Barcode Scanner



Datalogic GBT4500 Wireless Barcode Scanner with Digimarc



*Option to charge with micro-USB cable.

Scanner Models

Datalogic GBT4500 Wireless Barcode Scanner

4P886AA

Datalogic GBT4500 Wireless Barcode Scanner with Digimarc

4P887AA

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

Datalogic 4090



Datalogic 4190



Overview

Datalogic 4090 Charging Base

4P775AA

Datalogic 4190 Slim Charging Base

4P776AA

Key Features and Benefits

- 1 MP optics for superior scanning and DOF
 - 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; digital watermarks only available with the Digimarc-specific model (4P887AA).
 - 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.
-

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.

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.

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);
Hyper Red LED for Digimarc model (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

Digimarc model (4P887AA)

Depth of Field

Code 39	5 mils: 3.5 to 33.0 cm / 1.4 to 13.0 in
Data Matrix	10 mils: 3.0 to 28.0 cm / 1.2 to 11.0 in
EAN/UPC	13 mils: 1.0 to 62.0 cm / 0.4 to 24.4 in
PDF417	6.6 mils: 4.8 to 25.0 cm / 1.9 to 9.8 in
QR Code	10 mils: 3.0 to 26.0 cm / 1.2 to 10.2 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

Technical Specifications

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

Digital Watermarking

Digimarc Barcodes (requires Digimarc model 4P887AA)

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

0 – 95%

(non-condensing)

Electrical

Input Voltage

4.5 - 14VDC±5% (4090/ 4190 charging bases)

Current

Charging (Typical): < 6 W

Technical Specifications

	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

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
Particulate and Water Sealing	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.

GBT4500 Battery Charging Options**Direct battery charge via the reader's microUSB port (no charging base needed)**

- Slow-charge mode: Connect a PC/POS through a USB type A to microUSB cable directly to the reader (e.g. Datalogic cable P/N 94A051968 or any commercial cable). Fully depleted battery recharge time: approx. 4.6 hours (typical)
- Fast-charge mode: Connect a microUSB power supply directly to the reader (e.g. Datalogic power supply P/N 94ACC1380 or any commercial power supply for Android smartphones) Fully depleted battery recharge time: approx. 2 hours (typical)

Technical Specifications

Battery charging via the 4090 charging base

- Slow-charge mode: Connect a PC/POS through a Datalogic USB type A to RJ45 cable to the WLC4090 charging base (Datalogic cable P/N 90A052258 included in the WLC4090 charging base box) Fully depleted battery recharge time: approx. 11 hours (typical)
- Fast-charge mode: Connect a Datalogic power supply to the WLC4090 charging base (Datalogic power supply 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)

Battery charging via the 4190 charging base

- Slow-charge mode: Connect a PC/POS through a Datalogic USB type A to RJ45 cable to the WLC4190 charging base (Datalogic cable P/N 90A052258 included in the WLC4190 charging base box) Fully depleted battery recharge time: approx. 11 hours (typical)
- Fast-charge mode: Connect a PC/POS through a Datalogic USB type C to RJ45 cable to the WLC4190 charging base (Datalogic cable P/N 90A052355 or 90A052360) Fully depleted battery recharge time: approx. 3 hours (typical)
- Fast charge mode: Connect a PC/POS through a specific Datalogic USB type A to RJ45 cable to the WLC4190 charging base and connect a Datalogic power supply to the cable (Datalogic cable P/N 90A052356 or 90A052361 + Datalogic power supply 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)

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

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:

Technical Specifications

- 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
-

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

© Copyright 2022 HP Development Company, L.P. The information contained herein is subject to change without notice. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.