

Datalogic GD4590-BK

Datalogic Gryphon GD4590-BK Barcode Scanner User Manual

Model: GD4590-BK

1. INTRODUCTION

This manual provides comprehensive instructions for the Datalogic Gryphon GD4590-BK Omnidirectional 2D/1D Barcode Scanner/Imager. The GD4590-BK is a high-performance device designed for efficient and accurate barcode reading in various environments. It features advanced imaging technology, including a megapixel sensor with white-illumination, and Datalogic's Motionix™ technology for seamless switching between handheld and presentation modes. Please read this manual carefully before operating the device to ensure proper setup and optimal performance.

2. PACKAGE CONTENTS

Verify that all items are present in the package:

- One Datalogic Gryphon GD4590-BK Barcode Scanner
- One Scanner Stand
- One USB Data Cable
- One User Manual (this document)



Figure 2.1: Datalogic Gryphon GD4590-BK Barcode Scanner with its included stand, viewed from the side.

3. PRODUCT OVERVIEW

The Datalogic Gryphon GD4590-BK is designed for user comfort and efficient operation. Key components include the scanning window, trigger button, and connectivity port.



Figure 3.1: Top view of the Datalogic Gryphon GD4590-BK handheld scanner, showing the scanning window and ergonomic grip.



Figure 3.2: Front view of the Datalogic Gryphon GD4590-BK handheld scanner, highlighting the Datalogic Gryphon logo and scanning area.



Figure 3.3: Angled view of the scanner stand, designed to hold the Gryphon GD4590-BK for presentation mode scanning.



Figure 3.4: Side view of the scanner stand, showing its stable base and adjustable cradle.

4. SETUP

Follow these steps to set up your Datalogic Gryphon GD4590-BK scanner:

1. **Connect the USB Cable:** Insert the smaller end of the USB data cable into the port at the base of the scanner. Connect the larger end of the USB cable to an available USB port on your computer or host system.
2. **Install the Stand (Optional):** If using the scanner in presentation mode, assemble the stand and place the scanner securely into the cradle. The scanner will automatically detect when it is placed in the stand and switch to presentation mode (hands-free scanning) thanks to Motionix™ technology.
3. **Driver Installation:** For most operating systems, the scanner will be recognized as a standard HID keyboard device, and drivers will install automatically. No additional software is typically required for basic operation.
4. **Test Connection:** Open a text editor or any application that accepts keyboard input. Scan a known barcode. The barcode data should appear in the application.

5. OPERATING INSTRUCTIONS

The Gryphon GD4590-BK offers flexible scanning modes:

5.1 Handheld Mode

- Hold the scanner comfortably in your hand.
- Point the scanning window towards the barcode.
- Press and hold the trigger button. A bright white illumination and a 4-dot aimer with a center cross will appear.
- Center the aimer over the barcode. The scanner will emit an audible beep and/or a visual indicator (e.g., green

spot) upon successful read.

- Release the trigger.

5.2 Presentation Mode (Hands-Free)

- Place the scanner securely in its stand. The Motionix™ technology will automatically switch the scanner to continuous scanning mode.
- Present the barcode to the scanning window. The scanner will automatically detect and read the barcode.
- A successful read will be indicated by an audible beep and/or visual feedback.

5.3 Scanning Barcode Types

The GD4590-BK is capable of reading a wide range of barcode symbologies, including:

- **1D / Linear Codes:** UPC/EAN, Code 39, Code 128, Interleaved 2 of 5, etc.
- **2D Codes:** QR Code, Data Matrix, Aztec Code, MaxiCode, Micro QR Code, China Han Xin Code.
- **Postal Codes:** Various postal symbologies.
- **Stacked and Composite Codes:** PDF417.

For optimal performance when scanning from mobile devices, ensure the mobile device screen brightness is set to maximum.

6. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your scanner.

- **Cleaning the Scanning Window:** Use a soft, lint-free cloth lightly dampened with water or a mild, non-abrasive cleaner. Do not use harsh chemicals or abrasive materials, as these can scratch the window and impair scanning performance.
- **Cleaning the Exterior:** Wipe the scanner's exterior with a soft, damp cloth.
- **Storage:** When not in use, store the scanner in a clean, dry environment away from extreme temperatures and direct sunlight.
- **Cable Care:** Avoid bending or twisting the USB cable excessively. Do not pull the cable to disconnect it; always grasp the connector.

7. TROUBLESHOOTING

If you encounter issues with your scanner, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Scanner does not power on.	USB cable not properly connected or faulty USB port.	Ensure the USB cable is securely connected to both the scanner and the host device. Try a different USB port or host device.

Problem	Possible Cause	Solution
Scanner does not read barcodes.	Barcode damaged, incorrect symbology enabled, scanning window dirty, or scanner not configured correctly.	<ul style="list-style-type: none"> ◦ Ensure the barcode is not damaged and is clearly printed. ◦ Clean the scanning window (see Section 6). ◦ Verify the scanner is in the correct mode (handheld or presentation). ◦ Consult the full programming manual (available on the Datalogic website) to enable specific barcode symbologies if needed.
Scanned data appears incorrectly.	Keyboard layout mismatch or data formatting issue.	Ensure your computer's keyboard layout matches the scanner's configuration. Refer to the programming manual for data formatting options.
Scanner does not switch modes automatically.	Motionix™ technology setting disabled or scanner not properly seated in stand.	Ensure the scanner is firmly placed in the stand. Check the programming manual to confirm Motionix™ settings are enabled.

If the problem persists after trying these solutions, please contact Datalogic customer support.

8. SPECIFICATIONS


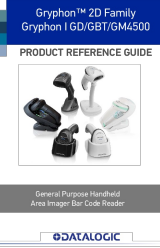


Feature	Detail
Brand	Datalogic
Model	GD4590-BK
Decoding Capability	1D / Linear Codes (Autodiscriminates all standard 1D codes), 2D Codes (Aztec Code; China Han Xin Code; Data Matrix; MaxiCode; Micro QR Code; QR Code), Postal Codes, PDF417
Interfaces	USB/RS-232/Keyboard Wedge Multi-Interface
Connectivity Technology	USB Cable
Operating Temperature	32°F to 122°F (0°C to 50°C)
Storage Temperature	-40°F to 158°F (-40°C to 70°C)
Drop Specifications	Withstands repeated drops from 1.8 m / 6.0 ft onto a concrete surface
Product Dimensions	6.5 in. x 2.7 in. x 4.3 in. (16.6 cm x 6.8 cm x 10.9 cm)
Item Weight	5.7 oz. (161.0 g)
Power Source	Corded Electric
Compatible Devices	Desktop, Laptop

9. WARRANTY AND SUPPORT

For warranty information, please refer to the warranty card included with your product or visit the official Datalogic website. Datalogic provides technical support and resources for its products. For further assistance, visit www.datalogic.com/support or contact your local Datalogic representative.

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Related Documents - GD4590-BK

	<p>Datalogic Gryphon I GD4500 Product Reference Guide</p> <p>Comprehensive guide to the Datalogic Gryphon I GD4500 handheld area imager barcode reader, covering setup, configuration, features, and technical specifications.</p>
	<p>Datalogic Gryphon™ 2D Family GD/GBT/GM4500 Product Reference Guide</p> <p>This Product Reference Guide provides detailed information on Datalogic's Gryphon™ 2D family of handheld area imager barcode readers, including models GD4500, GBT4500, and GM4500. It covers setup, configuration, features, and technical specifications for these advanced data collection devices.</p>
	<p>Datalogic Gryphon I GD/GBT/GM4500: Product Reference Guide for Handheld Bar Code Readers</p> <p>Comprehensive product reference guide for the Datalogic Gryphon I GD/GBT/GM4500 series handheld area imager bar code readers. Covers setup, configuration, technical specifications, and troubleshooting.</p>
	<p>Datalogic Custom Prefix and Suffix Instructions for Barcode Scanners</p> <p>Instructions for programming custom prefixes and suffixes for Datalogic barcode scanners, including Gryphon, PowerScan, and QuickScan models. Details ASCII character mapping and HEX value codes.</p>



[Datalogic Gryphon GM4102 Cordless Linear Imaging Scanner - Specifications and Features](#)

Comprehensive details on the Datalogic Gryphon GM4102 cordless linear imaging barcode scanner, covering its productivity features, technical specifications, industry applications, and accessories. Ideal for retail, light industrial, and warehouse environments.



[Datalogic Magellan 900i Quick Reference Guide](#)

This Quick Reference Guide for the Datalogic Magellan 900i omnidirectional imaging scanner provides essential information on setup, operation, programming, and troubleshooting. Visit www.datalogic.com for full details.