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Datalogic GD4590-HD

Datalogic Gryphon GD4590-HD Barcode Scanner User Manual

Model: GD4590-HD

1. INTRODUCTION AND OVERVIEW

The Datalogic Gryphon GD4590-HD is a high-density handheld 2D/1D barcode scanner designed for general-purpose applications. This device is engineered to read smaller, condensed codes, including Dot codes, and offers outstanding performance with its advanced megapixel sensor and warm-white-illumination 2D technology. Its ergonomic design ensures user comfort during extended operation.

The Gryphon GD4590-HD provides snappy omnidirectional reading performance on all common 1D and 2D codes, as well as postal, stacked, and composite codes like PDF417. It features Datalogic's Motionix motion-sensing technology, which automatically switches the scanner into the desired scanning mode based on operator actions, whether used handheld or with a stand. This scanner also excels at reading barcodes from mobile devices, making it suitable for mobile marketing or ticketing applications.

PRODUCT FEATURES



WIDE COMPATIBILITY



ERGONOMIC DESIGN



**HIGH TECHNOLOGY
PERFORMANCE**



USB CONNECTION



Figure 1.1: Key product features of the Datalogic Gryphon GD4590-HD scanner, highlighting wide compatibility, ergonomic design, high technology performance, and USB connection.

High Compatibility With Various System



Figure 1.2: The Datalogic Gryphon GD4590-HD scanner connected to a laptop, illustrating its high compatibility with various operating systems such as Android, Windows, and Linux.

2. SETUP

The Datalogic Gryphon GD4590-HD scanner is designed for straightforward setup. Follow these steps to begin using your device:

1. **Unpack the Scanner:** Carefully remove the barcode scanner and its accessories from the packaging. Verify that all components, including the scanner and USB data cable, are present.
2. **Connect the USB Cable:** Insert the smaller end of the provided USB data cable into the USB port located at the base of the Gryphon GD4590-HD scanner.
3. **Connect to Host Device:** Plug the larger end of the USB data cable into an available USB port on your computer or host system. The scanner will typically power on automatically and initiate the necessary driver installation.
4. **Configuration (Optional):** For specific configurations or advanced settings, refer to the Datalogic programming guide or software utilities available on the Datalogic website. The scanner supports multi-interface options including USB, RS-232, and Keyboard Wedge, allowing for flexible integration into various systems.

3. OPERATING INSTRUCTIONS

The Gryphon GD4590-HD is designed for intuitive operation. Here's how to use your scanner effectively:

1. **Power On:** Once connected via USB, the scanner will power on automatically. The illumination and aimer will activate when the trigger is pressed or when Motionix technology detects movement.
2. **Aiming and Scanning:** Point the scanner at the barcode you wish to read. The 4-Dot aimer with a center cross provides precise targeting. Press the trigger button to activate the scan engine. The scanner will emit a warm-white illumination.
3. **Successful Read Indication:** A successful read is typically indicated by an audible beep and/or a visual confirmation (e.g., a green light). The decoded data will be transmitted to your host system.
4. **Omnidirectional Reading:** The Gryphon GD4590-HD supports omnidirectional reading, meaning barcodes can be scanned from any orientation, simplifying the scanning process.
5. **Supported Barcode Types:** The scanner reads a wide range of 1D and 2D codes, including standard linear codes, Aztec Code, China Han Xin Code, Data Matrix, MaxiCode, Micro QR Code, QR Code, Postal Codes, and PDF417. It also handles stacked and composite codes.
6. **Motionix Technology:** The scanner's Motionix technology automatically detects whether it is being held or placed in a stand, switching between handheld and presentation modes without manual intervention.
7. **Scanning from Mobile Devices:** For barcodes displayed on mobile phone screens or other digital displays, ensure the screen brightness is adequate for optimal reading performance.

Decodes a Wide range of Barcode Formats

Suitable for Hospitals, Shopping Complexes & Retail Stores



Figure 3.1: The Datalogic Gryphon GD4590-HD scanner in use, demonstrating its ability to decode a wide range of barcode formats, suitable for various environments such as hospitals, shopping complexes, and retail stores.

4. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your Datalogic Gryphon GD4590-HD barcode scanner.

- **Cleaning the Scanner:** Regularly clean the scanner's window and exterior casing. Use a soft, lint-free cloth lightly dampened with water or a mild, non-abrasive cleaning solution. Avoid using harsh chemicals, solvents, or abrasive materials, as these can damage the device.
- **Cable Inspection:** Periodically inspect the USB cable for any signs of wear, fraying, or damage. Replace damaged cables immediately to prevent connectivity issues or potential hazards.
- **Environmental Considerations:** Operate and store the scanner within the specified temperature and humidity ranges to prevent damage. Avoid exposing the device to extreme temperatures, direct sunlight, or excessive moisture.
- **Drop Resistance:** The Gryphon GD4590-HD is built to withstand repeated drops from 1.8 meters (6.0 feet) onto a concrete surface, indicating its robust design. However, continuous harsh treatment should be avoided to maintain its integrity.

5. TROUBLESHOOTING

If you encounter issues with your Datalogic Gryphon GD4590-HD scanner, refer to the following troubleshooting tips:

- **Scanner Not Powering On:**
 - Ensure the USB cable is securely connected to both the scanner and the host computer.
 - Try connecting the scanner to a different USB port on your computer.
 - Verify that the host computer is powered on and functioning correctly.
- **Scanner Not Reading Barcodes:**
 - Ensure the barcode is clean, undamaged, and clearly visible.
 - Check the distance and angle between the scanner and the barcode. Adjust for optimal reading.
 - Verify that the barcode type is supported by the scanner (e.g., 1D, 2D).
 - Clean the scanner's reading window for any obstructions or smudges.
 - If scanning from a screen, increase the screen's brightness.
- **No Data Transmission to Host:**
 - Confirm the USB cable is properly connected.
 - Check the host computer's device manager to ensure the scanner is recognized and drivers are installed correctly.
 - Ensure the application receiving the data is active and ready to accept input.
 - If using a different interface (RS-232, Keyboard Wedge), verify the correct interface settings are configured on both the scanner and the host.
- **Scanner Beeps Continuously or Incorrectly:**
 - Refer to the Datalogic programming guide for specific beep codes and their meanings.
 - A continuous beep might indicate a configuration error or a hardware issue. Try resetting the scanner to factory defaults if possible (refer to the programming guide).

If these steps do not resolve the issue, please contact Datalogic customer support or your product vendor for further assistance.

6. SPECIFICATIONS

Detailed technical specifications for the Datalogic Gryphon GD4590-HD barcode scanner:

Feature	Specification
Model	GD4590-HD
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, Stacked and Composite Codes.
Interfaces	USB / RS-232 / Keyboard Wedge Multi-Interface
Operating Temperature	0°C to 50°C (32°F to 122°F)
Storage Temperature	-40°C to 70°C (-40°F to 158°F)

Feature	Specification
Drop Specification	Withstands repeated drops from 1.8 m (6.0 ft) onto a concrete surface
Dimensions (L x W x H)	16.6 cm x 6.8 cm x 10.9 cm (6.5 in. x 2.7 in. x 4.3 in.)
Weight	161.0 g (5.7 oz.)
Power Source	USB Cable
Connectivity Technology	USB Cable

PRODUCT DIMENSIONS



ITEM DIMENSIONS LXWXH 28 X 18 X 8 CENTIMETERS

Figure 6.1: Side view of the Datalogic Gryphon GD4590-HD scanner, illustrating its physical dimensions and ergonomic form factor.

7. WARRANTY AND SUPPORT

Warranty Information:

Specific warranty terms and conditions for the Datalogic Gryphon GD4590-HD barcode scanner are typically provided with the product packaging or can be found on the official Datalogic website. Please retain your proof of purchase for warranty claims. The warranty generally covers manufacturing defects under normal use.

Technical Support:

For technical assistance, troubleshooting beyond the scope of this manual, or inquiries regarding repairs and service, please contact Datalogic customer support. You may find contact information on the Datalogic official website or through your authorized reseller. When contacting support, please have your product model number (GD4590-HD) and serial number ready.