

Datalogic QW2120-BK

Datalogic QuickScan Lite QW2100 Bar Code Reader User Manual

Model: QW2120-BK

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Datalogic QuickScan Lite QW2100 Bar Code Reader. The QW2100 is an entry-level linear imager designed for reading long, truncated 1D bar codes, commonly found in retail, light industrial, document processing, and office environments. Its ergonomic design ensures user comfort during daily operations.

Please read this manual thoroughly before using the device to ensure safe and efficient operation.

2. SAFETY INFORMATION

Observe the following safety precautions to prevent injury and damage to the device:

- Do not expose the device to extreme temperatures, humidity, or direct sunlight.
- Avoid dropping the device or subjecting it to severe impacts.
- Do not attempt to open or modify the device. Refer all servicing to qualified personnel.
- Keep the scanning window clean to ensure optimal performance.
- Use only Datalogic-approved accessories and power supplies.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Datalogic QuickScan Lite QW2100 Bar Code Reader
- USB Cable (if USB interface model) or RS-232/Keyboard Wedge Cable
- Quick Start Guide (refer to this manual for full instructions)
- Optional: Stand (if purchased as a kit)

4. PRODUCT OVERVIEW

The Datalogic QuickScan Lite QW2100 features a compact and ergonomic design for comfortable handheld use. Key components include:

- **Scanning Window:** Emits the scan line and reads bar codes.
- **Trigger Button:** Activates the scanning process.
- **Indicator LED:** Provides feedback on scanning status (e.g., successful read, error).
- **Cable Connector Port:** For connecting the interface cable.



Figure 1: Datalogic QuickScan Lite QW2100 Bar Code Reader, showing its ergonomic design and scanning window. This image displays the black handheld scanner with the Datalogic QuickScan Lite logo on the top surface and a blue trigger button on the underside of the handle.

5. SETUP

Follow these steps to set up your QW2100 Bar Code Reader:

1. **Connect the Cable:** Insert the appropriate interface cable (USB or RS-232/Keyboard Wedge) into the connector port at the base of the scanner. Ensure a secure connection.
2. **Connect to Host Device:**
 - **USB Interface:** Plug the USB connector into an available USB port on your computer or POS system. The operating system should automatically detect and install the necessary drivers.
 - **RS-232/Keyboard Wedge Interface:** Connect the cable to the corresponding port on your host device. Configuration may be required using Datalogic Aladdin software or by scanning configuration bar codes (refer to the full programming manual for details).
3. **Power On:** The scanner typically powers on automatically once connected to the host device. The indicator LED may illuminate to confirm power.
4. **Optional Stand Setup:** If using the optional stand, assemble it according to its instructions and place the scanner in the stand for hands-free operation.

For advanced configuration, such as changing symbologies or interface settings, refer to the Datalogic Aladdin Configuration Software or the comprehensive programming manual.

6. OPERATING INSTRUCTIONS

To scan a bar code with your QW2100 reader:

1. **Aim:** Point the scanning window of the reader at the bar code you wish to scan.
2. **Activate:** Press and hold the trigger button. A bright scan line will project from the scanning window.
3. **Scan:** Position the scan line across the entire bar code. The QW2100 is designed for wide-angle scanning, making it effective for long or wide codes.
4. **Confirmation:** Upon a successful read, the scanner will emit an audible beep (if enabled) and the indicator LED will flash. Release the trigger button.

For optimal performance, ensure the bar code is clean and not excessively creased or damaged. Adjust the distance between the scanner and the bar code for the best read.

7. MAINTENANCE

Proper maintenance ensures the longevity and performance of your bar code reader:

- **Cleaning the Scanning Window:** Use a soft, lint-free cloth dampened with a mild, non-abrasive cleaner (e.g., glass cleaner) to gently wipe the scanning window. Avoid harsh chemicals or abrasive materials that could scratch the surface.
- **Cleaning the Casing:** Wipe the exterior casing with a soft, damp cloth.
- **Cable Inspection:** Regularly check the interface cable for any signs of damage, fraying, or loose connections. Replace damaged cables immediately.
- **Storage:** When not in use, store the scanner in a clean, dry environment away from direct sunlight and extreme temperatures.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Scanner does not power on.	Cable not connected properly or host device not providing power.	Ensure the cable is securely connected to both the scanner and the host device. Try a different USB port or host device.
Scanner does not read bar codes.	Scanning window is dirty. Bar code is damaged or poorly printed. Incorrect distance or angle. Symbology not enabled.	Clean the scanning window. Try scanning a different, known-good bar code. Adjust the distance and angle. Ensure the scan line covers the entire code. Refer to the programming manual to enable the required bar code symbology.
Scanner reads intermittently.	Damaged cable or loose connection.	Check the cable for damage and ensure connections are secure. Replace cable if necessary.

9. SPECIFICATIONS

Feature	Detail
Model Number	QW2120-BK
Brand	Datalogic
Connectivity Technology	USB Cable (also available in RS-232/Keyboard Wedge)
Power Source	AC (via host device USB or external power supply for RS-232)
Scan Rate	400 scans/second
Product Dimensions (L x W x H)	6.69 x 2.56 x 2.76 inches (17 x 6.5 x 7 cm)
Item Weight	4.2 ounces
Color	Black
Supported Symbologies	Most standard 1D bar codes (e.g., EAN/UPC, Code 39, Code 128, Interleaved 2 of 5, etc.)

10. WARRANTY AND SUPPORT

Datalogic products are designed and manufactured to the highest quality standards. For warranty information, please refer to the warranty card included with your product or visit the official Datalogic website.

For technical support, product registration, or to download the latest drivers and software (such as Datalogic Aladdin Configuration Software), please visit the Datalogic support portal or contact your local Datalogic representative.

Website: www.datalogic.com

