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› Newland NLS-HR2081-SF 2D Barcode Scanner User Manual

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Model: NLS-HR2081-SF

1. INTRODUCTION

This manual provides detailed instructions for the Newland NLS-HR2081-SF 2D Barcode Scanner. This high-performance handheld scanner is designed to efficiently read both 1D and 2D barcodes from paper or digital screens. It features an ergonomic design, auto-sensing technology, and broad compatibility with various operating systems and software.



Figure 1: Newland NLS-HR2081-SF 2D Barcode Scanner (Handheld)

2. PACKAGE CONTENTS

Verify that all items are present in the package:

- 1x Newland NLS-HR2081-SF Barcode Scanner
- 1x Adjustable Stand
- 1x USB Cable (2 meters)
- 1x User Manual (this document)



Figure 2: Barcode Scanner with Adjustable Stand

3. SETUP AND INSTALLATION

The Newland NLS-HR2081-SF scanner is designed for plug-and-play operation, requiring no additional software installation for basic functionality.

1. **Connect the USB Cable:** Insert the USB cable into the scanner's port and then connect the other end to an available USB port on your computer or POS system.
2. **System Recognition:** Your operating system (Windows, Mac, iOS, Android, Linux) will automatically detect and install the necessary drivers. This process usually takes a few seconds.
3. **Position the Stand (Optional):** If using the adjustable stand, place the scanner onto the stand. The scanner can operate in handheld mode or in auto-sensing mode when placed on the stand.
4. **Test the Scanner:** Open a text editor (e.g., Notepad, Word) or any application that accepts keyboard input. Scan a test barcode. The barcode data should appear in the application.

The scanner is compatible with various software applications including Quickbook, Word, Excel, and Novell.

Plug&Play



Default with 2m Cable



Newland AIDC
Scanning Made Simple

Figure 3: Plug and Play Compatibility with various operating systems.

4. OPERATING INSTRUCTIONS

4.1. Scanning Modes

- **Handheld Mode:** Hold the scanner and press the trigger button to activate the scanning light and read barcodes.
- **Auto-Sensing Mode:** When the scanner is placed on its adjustable stand, the auto-sensing function is activated. The scanning light will automatically turn on when a barcode is presented within its scanning field, allowing for hands-free operation.

4.2. Barcode Symbolologies Supported

The NLS-HR2081-SF scanner supports a wide range of 1D and 2D barcode symbolologies:

- **2D Barcodes:** PDF417, Micro PDF417, Micro QR, QR Code, Data Matrix, Aztec.

- **1D Barcodes:** Code 11, Code 128, Code 39, GS1-128 (UCC/EAN 128), AIM 128, ISBT 128, Codabar, Code 93, UPC-A, UPC-E, Coupon, GS1 Composite, EAN-8, EAN-13, ISBN/ISSN, Interleaved 2 of 5, Matrix 2 of 5, Industrial 25, ITF6, ITF-14, Standard 25, China Post 25, MSI Plessey, Plessey, GS1 Databar (RSS).

The scanner is capable of reading high-density, high-volume, and even distorted barcodes printed on paper or displayed on screens.



NLS-HR2081 HANDHELD SCANNER

EFFICIENT
ERGONOMIC
DURABLE



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Scanning Made Simple

Figure 4: Scanner in use, demonstrating efficient barcode reading.

5. MAINTENANCE

To ensure optimal performance and longevity of your scanner, follow these maintenance guidelines:

- **Cleaning:** Regularly clean the scanning window with a soft, lint-free cloth. For stubborn dirt, slightly dampen the cloth with water or a mild, non-abrasive cleaner. Do not use harsh chemicals or abrasive materials.
- **Cable Care:** Avoid bending or twisting the USB cable excessively. Ensure it is not pinched or placed under heavy objects.

- **Storage:** Store the scanner in a clean, dry environment when not in use. Avoid extreme temperatures and direct sunlight.
- **Drop Protection:** While the scanner is designed to withstand drops of up to 1.2 meters on concrete, avoid unnecessary drops to prevent potential damage.

6. TROUBLESHOOTING

If you encounter issues with your Newland NLS-HR2081-SF scanner, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Scanner does not power on.	USB cable not properly connected or power issue.	Ensure the USB cable is securely connected to both the scanner and the computer. Try a different USB port or computer.
Scanner reads barcodes but data does not appear on screen.	Application not in focus or incorrect input mode.	Ensure the cursor is active in the desired input field of your application. Check if the application is compatible with keyboard input.
Scanner fails to read certain barcodes.	Barcode damaged, poor print quality, or unsupported symbology.	Ensure the barcode is clean and undamaged. Try scanning a different barcode of the same type. Verify that the barcode symbology is listed as supported in Section 4.2. Adjust scanning distance and angle.
Scanner is in auto-sensing mode but not scanning automatically.	Scanner not properly seated on the stand or sensor obstruction.	Ensure the scanner is correctly placed on its adjustable stand. Check for any obstructions near the scanning window or sensor.

7. SPECIFICATIONS

Feature	Detail
Model Number	NLS-HR2081-SF
Image Sensor	CMOS
Pixel	640*480
Light Source	Red LED 625nm
Resolution	≥3mil (Code 128)
Connectivity Technology	USB, RS232
Power Source	Corded Electric (via USB)
Compatible Devices	Desktop, Laptop, Smartphone, Tablet
Operating Systems	Windows, Mac, iOS, Android, Linux
Weight	111g

Feature	Detail
Cable Length	2 meters (USB)
Drop Specification	1.2 meters on concrete
Industrial Protection	IP42
Manufacturer	Newland

8. WARRANTY AND SUPPORT

Specific warranty information is typically provided with your purchase documentation or on the manufacturer's official website. For technical support, warranty claims, or further assistance, please contact Newland customer service or refer to their official support channels.

For the most up-to-date support information, please visit the official Newland website or contact your local distributor.

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