LENVII D2200

LENVII D2200 Desktop 2D Barcode Scanner User Manual

Model: D2200

1. Introduction

This manual provides detailed instructions for the LENVII D2200 Desktop 2D Barcode Scanner. This device is designed for efficient and accurate scanning of both 1D and 2D barcodes, including QR codes, in various retail and business environments. Please read this manual thoroughly before operating the scanner to ensure proper use and optimal performance.

2. Product Overview

The LENVII D2200 is an omnidirectional, hands-free barcode scanner engineered for high-speed and high-precision decoding. Its robust design and plug-and-play functionality make it suitable for various applications.

2.1. Appearance and Components

Figure 2.1: Front view of the LENVII D2200 scanner highlighting its components. The image shows the fill-in light, scan window, indicator light + button at the top, and the data transmission port at the bottom rear.

- **Fill-in Light:** Provides additional illumination for scanning in low-light conditions.
- **Scan Window:** The area through which barcodes are read.
- **Indicator Light + Button:** The top button allows switching between reading modes. The indicator light shows the current mode or status.
- **Data Transmission Port:** Located at the rear bottom, used for connecting the USB cable to a host device.

2.2. Product Dimensions

Figure 2.2: Dimensions of the LENVII D2200 barcode scanner. The scanner measures approximately 16cm (6.3 inches) in height, 8cm (3.15 inches) in width, and 5.5cm (2.2 inches) in depth.

The compact design of the D2200 allows for flexible placement in various environments, such as cash registers or service counters. Its dimensions are approximately 16 cm (height) x 8 cm (width) x 5.5 cm (depth).

2.3. Adjustable Angle

Figure 2.3: Illustration of the adjustable scanning angle of the LENVII D2200. The scanner can be tilted with an anteversion of 10 degrees and a caster angle of 18 degrees for optimal scanning.

The scanner features an adjustable angle, allowing for an anteversion of 10° and a caster angle of 18°. This flexibility helps optimize scanning performance and user comfort in different setups.

2.4. Application Scenarios

Figure 2.4: Examples of where the LENVII D2200 barcode scanner can be used, including restaurants, pharmacies, and supermarkets.

The LENVII D2200 is suitable for a wide range of applications, including hypermarkets, shopping malls, specialty stores, restaurants, and pharmacies, due to its hands-free operation and versatile scanning capabilities.

3. Setup

The LENVII D2200 barcode scanner is designed for simple plug-and-play installation, requiring no additional drivers or software for most operating systems.

3.1. Connecting the Scanner

Figure 3.1: Diagram showing the LENVII D2200 scanner connected to a laptop via a USB cable, illustrating its plug-and-play compatibility with Windows, Linux, and Mac OS.

1. Connect the USB cable from the scanner's data transmission port to an available USB port on your computer or POS system.
2. The scanner will automatically power on and initiate the installation process (if required by the operating system).
3. Once connected, the scanner is ready for use.

The scanner is compatible with various operating systems, including Windows (7/8/10/XP), Linux, Mac OS, iOS, Android, and Raspberry Pi.

4. Operation

The LENVII D2200 offers efficient and versatile barcode scanning capabilities. Its hands-free design allows for quick and continuous scanning.

4.1. Scanning Barcodes

Place the barcode within the scanner's field of view. The omnidirectional scanning platform will automatically detect and decode the barcode. Ensure the barcode is flat and clearly visible for optimal scanning performance.

4.2. Reading Mode Switching

Figure 4.1: Instructions for switching reading modes on the LENVII D2200. Pressing the top button toggles between "one-dimensional + two-dimensional" (blue light) and "read only one dimension" (red light) modes.

The scanner supports different reading modes. To switch between modes, press the button located on the top of the scanner:

- **One-dimensional + Two-dimensional Mode:** Indicated by a blue light. In this mode, the scanner can read both 1D and 2D barcodes.
- **Read Only One Dimension Mode:** Indicated by a red light. In this mode, the scanner will only read 1D barcodes.

4.3. Supported Barcode Types

Figure 4.2: Visual representation of various 1D and 2D barcode types supported by the LENVII D2200 scanner, including Code 39, Code 128, Codabar, EAN/JAN-13, UPC A, QR, PDF417, Data Matrix, Micro QR, and AZTEC.

The LENVII D2200 is equipped with a high-performance hardware decoder chip capable of reading a wide array of complex 1D and 2D barcodes from both paper labels and digital displays (mobile phones or computer monitors).

- **2D Barcodes:** QR Code, Data Matrix, PDF417, Aztec, Micro QR.
- **1D Barcodes:** UPC / EAN / JAN, UPC-A & UPC-E, EAN-8 & EAN-13, JAN-8 & JAN-13, ISBN / ISSN, Code 39 (with full ASCII), Codabar (NW7), Code 128 & EAN 128, Code 93, Interleaved 2 of 5 (ITF), Addendum 2 of 5, IATA Code, MSI / Plessy, China Postal Code, Code 32 (Italian Pharmacode), RSS14, RSS Limited, RSS Expanded.

For more information on QR codes, you can visit TEC-IT's QR Code Reference.

5. Specifications

Below are the detailed technical specifications for the LENVII D2200 Desktop 2D Barcode Scanner.

Feature	Detail
Model	D2200
Image (Pixels)	640 pixels (H) * 480 pixels (V)
Light Source	Aiming: 617 nm LED; Illumination: 6500K LED
Scanning Speed	Up to 2000 times / second
Scanning Distance (UPC/EAN 13mil PCS=90%)	0-200mm
Scanning Distance (QR 20mil PCS=100%)	0-150mm
Scanning Angle	60° left and right / 60° front and back / 360° rotation
Field of View	48° horizontally, 30° vertical
Reading Accuracy	≥ 5mil
Printing Contrast	≥ 25%
Connectivity Technology	USB Cable
Power Source	USB Powered
Product Dimensions	16 cm (height) x 8 cm (width) x 5.5 cm (depth)
Item Weight	240 g (0.6 Kilograms including packaging/cable)
Cable Length	1.8 meters
Drop Resistance	Tested after 1.5M drop
Operating Systems Supported	POS, iOS, Android, Windows, Mac OS, Linux, Raspberry Pi

6. Maintenance

Proper maintenance ensures the longevity and optimal performance of your LENVII D2200 barcode scanner.

- **Cleaning:** Regularly wipe the scan window and exterior surfaces with a soft, damp cloth. Avoid using abrasive cleaners or solvents that could damage the device.
- **Handling:** Although the scanner is designed to be rugged, avoid dropping it from excessive heights or subjecting it to severe impacts.
- **Storage:** Store the scanner in a clean, dry environment away from extreme temperatures and direct sunlight when not in use.
- **Cable Care:** Do not bend or crimp the USB cable excessively. Ensure it is not under tension to prevent damage.

7. Troubleshooting

This section addresses common issues you might encounter with your LENVII D2200 barcode scanner.

7.1. Scanner Not Responding

- **Check USB Connection:** Ensure the USB cable is securely connected to both the scanner and the host

device. Try plugging it into a different USB port.

- **Power Supply:** Verify that the host device (computer/POS) is powered on and functioning correctly. The scanner draws power directly from the USB port.
- **Restart Device:** Disconnect and reconnect the scanner, or restart your computer/POS system.

7.2. Unable to Scan Barcodes

- **Barcode Quality:** Ensure the barcode is clear, not smudged, torn, or excessively reflective. Try scanning a different, known-good barcode.
- **Lighting Conditions:** While the scanner has a fill-in light, extreme lighting (too dark or too bright direct light) can affect scanning. Adjust the environment if necessary.
- **Scanning Distance/Angle:** Position the barcode within the optimal scanning range (0-200mm for 1D, 0-150mm for 2D) and ensure it's properly aligned with the scan window.
- **Reading Mode:** Verify that the scanner is in the correct reading mode (e.g., "One-dimensional + Two-dimensional Mode" if scanning QR codes). Press the top button to switch modes if needed.
- **Software/Driver Issues:** Although plug-and-play, ensure your operating system recognizes the device. Check device manager (Windows) or system information (Mac/Linux) for any errors.

7.3. Incorrect Data Output

- **Keyboard Layout:** Ensure your computer's keyboard layout matches the expected output of the scanner (e.g., US English).
- **Application Focus:** Make sure the cursor is active in the application where you expect the scanned data to appear (e.g., a text editor, POS software).

8. Warranty and Support

LENVII products are manufactured to high-quality standards. For specific warranty information, please refer to the warranty card included with your product or contact your point of purchase. For technical support or further assistance, please reach out to LENVII customer service through the contact information provided on the official LENVII website or your retailer's support channels.