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NETUM CS9501

NETUM CS9501 Bluetooth 2D Barcode Scanner User Manual

Model: CS9501 | Brand: NETUM

1. Introduction

The NETUM CS9501 is an advanced Bluetooth 2D barcode scanner designed for efficient inventory management and point-of-sale (POS) operations. Featuring a high-performance Zebra scanning engine, this portable reader supports various 1D and 2D codes, including QR codes, from both printed labels and digital screens. Its versatile connectivity options (Bluetooth, 2.4G wireless, and USB wired) ensure broad compatibility with tablets, Android devices, iOS devices, PCs, and POS systems. This manual provides detailed instructions for setting up, operating, and maintaining your CS9501 scanner.



Figure 1: NETUM CS9501 Bluetooth 2D Barcode Scanner.

2. Product Features

- **Physical Power Switch:** Easily switch between Off, Bluetooth Mode, and 2.4G Wireless Mode using the integrated physical switch. A unique battery indicator clearly displays the remaining power level.
- **High-Resolution Scanning:** Equipped with a Zebra SE4107 2D scanning engine and a 1280H × 800V pixel (1M) CMOS sensor, capable of capturing most 1D/2D codes (e.g., ISBN/UPC/EAN, Code39, Code128, QR, Data Matrix) from printed labels or digital screens.
- **3-in-1 Connectivity:** Offers three connection methods: **Bluetooth** for wireless pairing, a **2.4GHz wireless adapter** for quick Plug & Play, and a **USB wired connection** for stable data transmission. Compatible with smartphones, computers, POS systems, iPhones, iPads, and laptops.
- **Long-Lasting Battery:** Features a 2400mAh high-capacity battery, providing up to 12 hours of continuous operation under intensive use. Advanced battery management ensures ultra-low power consumption and real-time indicators prevent unexpected power loss.
- **Robust and Durable Design:** Constructed from durable ABS plastic and reinforced with soft TPU material covering over

45% of the body. Designed to withstand drops of up to 1.5m (4.9 ft) onto concrete surfaces. Ergonomic handle and trigger provide comfortable grip, with anti-slip and sweat-resistant textures for prolonged use.



Figure 2: Enhanced structural design with ABS+TPU for drop resistance.



Figure 3: Real-time LED battery indicator and 2400mAh battery capacity.



Figure 4: Ergonomic design for comfortable handling and cloud-touch buttons.



Figure 5: High-performance scanning module with Zebra SE4107 and CMOS sensor for rapid and accurate barcode recognition.

3. Setup Instructions

3.1. Physical Overview

Familiarize yourself with the scanner's physical components, including the power/mode switch located on the bottom, the scanning window, and the trigger button.

3.2. Charging the Scanner

Before first use, fully charge the scanner using the provided USB cable. Connect the USB cable to the scanner's charging port and a compatible USB power source (e.g., computer USB port, USB wall adapter). The battery indicator will show charging status.

3.3. Connection Modes

The NETUM CS9501 offers three connection options: Bluetooth, 2.4GHz Wireless (via USB dongle), and USB Wired. Use the physical switch on the bottom of the scanner to select your desired mode.



Figure 6: Physical switch for selecting connection modes (OFF, Bluetooth, 2.4G Wireless).



Figure 7: Visual guide for Bluetooth and 2.4GHz wireless connection setup.

3.3.1. Bluetooth Connection

1. Slide the physical switch on the bottom of the scanner to the **left** (Bluetooth mode).
2. Activate Bluetooth on your host device (smartphone, tablet, PC).
3. Search for 'CPRO barcode scanner' in the list of available Bluetooth devices and tap to pair.
4. The default keyboard layout is US. If your device uses a different keyboard layout, configure the correct keyboard language settings on your host device before using the scanner.

3.3.2. 2.4GHz Wireless Connection (via USB Dongle)

1. Slide the physical switch on the bottom of the scanner to the **right** (2.4G Wireless mode).
2. Connect the 2.4GHz USB adapter (dongle) to an available USB port on your computer or host device.
3. The scanner should automatically connect. If your device uses a US keyboard layout, no further configuration is typically required (Plug & Play).
4. If your device uses a different keyboard layout, ensure the correct keyboard language is configured on your host device.

3.3.3. USB Wired Connection

To use the scanner in wired mode, connect the USB cable directly from the scanner to your computer. The scanner will function as a standard USB HID keyboard device. No special drivers are usually required.

Important Note: Scanning a configuration code to change connection modes is not supported. Always use the physical switch on the bottom of the scanner to select your desired connection mode.

4. Operating Instructions

4.1. Basic Scanning

1. Ensure the scanner is powered on and connected to your host device via your chosen method (Bluetooth, 2.4G Wireless, or USB Wired).
2. Open an application on your host device where you want the scanned data to appear (e.g., a text editor, spreadsheet, POS software). Ensure the text cursor is active in the data entry field.
3. Point the scanner's window at the barcode or QR code you wish to scan.
4. Press the trigger button. The scanner will emit a light and attempt to read the code.
5. Upon successful scan, the scanner will typically beep, and the data will appear in your application.

4.2. Storage Mode (Offline Scanning)

The CS9501 features an internal memory for storing barcodes when out of range or not connected to a host device. This is useful for inventory tasks in areas without network coverage.

1. To activate Storage Mode, scan the specific 'Storage Mode' barcode found in the quick start guide or full manual (if provided).
2. Scan barcodes as usual. The scanner will store them in its internal memory.
3. Once you return to your host device's range, scan the 'Data Upload' barcode (also found in the manual) to transfer all stored data to your application.



Figure 8: Examples of the NETUM CS9501 scanner in use for inventory, retail, and logistics.



Figure 9: A delivery professional utilizing a NETUM scanner for package processing.

5. Maintenance

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

- **Cleaning the Optical Window:** Regularly clean the scanner's optical window to prevent dust, lint, or fingerprints from affecting scanning accuracy. Use a microfiber cloth slightly dampened with water and a drop of neutral soap. Wipe gently without rubbing forcefully.
- **Storage:** Store the scanner in a cool, dry place away from direct sunlight and extreme temperatures when not in use.
- **Battery Care:** Avoid fully discharging the battery frequently. For long-term storage, charge the battery to about 50% and store in a cool, dry place.

6. Troubleshooting

If you encounter issues with your NETUM CS9501 scanner, refer to the following common problems and solutions:

- **Scanner Not Connecting:**
  - Ensure the physical mode switch is set correctly (Bluetooth or 2.4G Wireless).
  - For Bluetooth, ensure Bluetooth is enabled on your host device and the scanner is paired.
  - For 2.4G wireless, ensure the USB dongle is securely connected to your host device.
  - Check battery level; recharge if low.
- **Unable to Scan Barcodes:**
  - Ensure the optical window is clean and free from obstructions.
  - Verify the barcode is not excessively damaged, blurry, or poorly printed.
  - Ensure the scanner is within optimal reading distance from the barcode.
  - Check if the barcode type is supported by the scanner (refer to specifications).
- **Scanned Data Appears Incorrectly:**
  - Verify that the keyboard layout configured on your host device matches the scanner's default (US) or has been

adjusted accordingly.
    - Ensure the cursor is active in the correct input field of your application.
- **Scanner Beeps Long and Shuts Down (Bluetooth Mode):**
    - This indicates a failed Bluetooth connection after multiple attempts. Ensure the host device is within range and Bluetooth is active.

7. Specifications

Feature	Specification
Model Number	CS9501
Scanning Engine	Zebra SE4107 2D Imager Module
Sensor Resolution	1280 x 960 pixels
Field of View	Horizontal: 44.5°, Vertical: 33.5°
Connectivity	Bluetooth, 2.4GHz Wireless (USB Dongle), USB Wired
Compatible Devices	Mac Computer, Android Smartphone, Android Tablet, Windows PC
Battery Capacity	2400mAh (1 C cell included)
Operating Voltage	5 Volts
Product Dimensions	13 x 4 x 3 cm (5.12 x 1.57 x 1.18 inches)
Product Weight	210 g (0.46 lbs)
Drop Resistance	Up to 1.5m (4.9 ft) to concrete
Supported 1D Symbologies	Code39, Code128, Codabar, Code11, UPC/EAN, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, Matrix 2 of 5, Korean 3 of 5, GS1 DataBar, Code93, MSI, Composite
Supported 2D Symbologies	PDF417, Postal codes, Micro PDF, Micro PDF417, Code128-Emulation, Aztec, Data Matrix, GS1 Data Matrix, QRCode, GS1QR, Maxicode, MicroQR, HanXin Code, Grid Matrix
Certifications	CE, RoHS
Country of Origin	China

8. Warranty and Support

The NETUM CS9501 barcode scanner comes with a **1-year warranty** from the date of purchase. This warranty covers manufacturing defects and malfunctions under normal use. For technical support, warranty claims, or further assistance, please contact NETUM customer service through the retailer's platform or the official NETUM website.

Please retain your proof of purchase for warranty validation.

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