

MUMUQ BS-2D-BB0030

MUMUQ Wireless Mini Barcode Scanner (Model BS-2D-BB0030) User Manual

1. INTRODUCTION

This manual provides detailed instructions for the proper use and maintenance of your MUMUQ Wireless Mini Barcode Scanner, Model BS-2D-BB0030. This compact and versatile device is designed for efficient 1D and 2D barcode scanning across various platforms and environments.

Key features include a mini, drop-proof design, three connection modes (2.4G Wireless, Bluetooth, and USB Wired), advanced 2D decoding capabilities for both paper and screen codes, and a long-lasting 1100mAh battery with a convenient charging dock.

2. PRODUCT OVERVIEW



Figure 2.1: Barcode Scanner and Charging Dock



Figure 2.2: Scanner held in hand, demonstrating its compact size

2.1 Physical Description

- **Dimensions:** Approximately 3.5 inches (L) x 1.22 inches (W) x 0.78 inches (D).
- **Weight:** Approximately 1.76 oz (50g).
- **Design:** Mini size, highly integrated 2D decoding structure, anti-drop and anti-vibration, capable of withstanding drops from 1.5m (4.9ft).

2.2 Components

- **Scan Button:** Initiates barcode scanning.
- **Power Button:** Turns the device on/off. Double-click to check battery level.
- **Charging Dock:** Provides a stable base for charging and storage.
- **USB-C Port:** For wired connection and charging.

3. SETUP

3.1 Connection Modes

The scanner supports three connection modes: 2.4G Wireless, Bluetooth, and USB Wired. Choose the mode that best suits your device and environment.



Figure 3.1: 3-in-1 Connection Ways



Figure 3.2: Long Transmission Range

3.1.1 USB Wired Mode

1. Connect the scanner to your device (PC, laptop, POS system) using the provided USB-C cable.
2. The scanner will automatically enter wired mode and begin charging. No additional setup is required.

3.1.2 2.4G Wireless Mode

1. Insert the 2.4G USB dongle into an available USB port on your computer.
2. Turn on the barcode scanner. It will automatically connect to the dongle.
3. The 2.4G wireless transmission distance can reach up to 100m (328ft) in barrier-free environments.

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Video 3.1: Demonstration of Wireless 2.4G Mode and USB Wired Mode connection.

3.1.3 Bluetooth Mode

1. Ensure the scanner is powered on.
2. Scan the 'Bluetooth HID Mode' barcode from the instruction sheet to switch the scanner to Bluetooth mode.
3. On your host device (smartphone, tablet, laptop), enable Bluetooth and search for available devices.
4. Select 'BarCode Scanner HID' from the list to pair.
5. The Bluetooth 5.0 technology supports a transmission distance of over 50m (164ft) in barrier-free environments.

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Video 3.2: Instructions on how to switch between Wireless 2.4G mode and Bluetooth HID mode.

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Video 3.3: Detailed steps for Bluetooth HID Pairing.

3.2 Device Compatibility

The scanner is compatible with a wide range of operating systems and devices, including Windows, Mac OS, iOS, Linux, Unix, and Android systems. It can connect to desktops, laptops, smartphones, and tablets.



Figure 3.3: Multiple Device and OS Compatibility

4. OPERATING INSTRUCTIONS

4.1 Scanning Barcodes

The scanner is equipped with an advanced CMOS sensor for accurate decoding of 1D and 2D barcodes, including QR codes. It can read codes from both paper and electronic screens, and is capable of decoding damaged or distorted barcodes.



Figure 4.1: 2D 1D QR Barcode Decoding Capabilities

4.1.1 Scanning Modes

- **Manual Mode:** Press the scan button for each barcode scan.
- **Continuous Mode:** The scanner continuously scans barcodes without requiring a button press.
- **Induction Mode:** The scanner automatically activates when a barcode is presented within its scanning range.



Figure 4.2: 3 Code Reading Modes

4.2 Battery Management

- **Battery Level Check:** Double-click the power button to check the remaining battery level.
- **Charging:** Place the scanner on its charging dock or connect it via USB-C cable. The built-in 1100mAh battery provides over 12 hours of continuous work and more than 4 weeks of standby time. Charging time is approximately 5 hours.
- **Power Saving:** The automatic shutdown function helps conserve power during periods of inactivity.



Figure 4.3: Scanning Keys and Battery Check

4.3 Data Storage

- **Synchronous Mode:** Scans and transfers data directly to the connected device.
- **Storage Mode:** Allows the scanner to store up to 20,000 commodity codes offline. Data can be uploaded in batches later, facilitating inventory management in areas without immediate connectivity.

5. MAINTENANCE

- **Cleaning:** To maintain optimal performance, gently clean the scan window with a soft, dry cloth. Do not spray liquids directly onto the device.
- **Handling:** Avoid dropping the device from excessive heights, although it is designed to be drop-resistant up to 1.5m.
- **Disassembly:** Do not attempt to disassemble the device. Unauthorized disassembly will void the warranty and may cause damage.
- **Charging:** Use the original USB cable for charging. Avoid using USB PD power adapters or cables that do not meet the recommended charging current of 5V1A.

6. TROUBLESHOOTING

- **Scanner not connecting:**
 - Ensure the scanner is fully charged.
 - Verify the correct connection mode (2.4G, Bluetooth, or USB) is selected and properly configured.
 - For Bluetooth, ensure your host device's Bluetooth is enabled and the scanner is paired.
 - For 2.4G wireless, ensure the USB dongle is securely inserted into your device.
- **Scanner not reading barcodes:**
 - Ensure the barcode is clean, clear, and not excessively damaged or blurred.
 - Adjust the distance and angle between the scanner and the barcode.
 - Check if the scanner's lens is clean and free from obstructions.
 - Confirm the barcode type is supported by the scanner (1D/2D QR codes).
- **Short battery life:**
 - Ensure the scanner is fully charged before use.
 - Verify that the charging cable and adapter meet the recommended specifications (5V1A).
 - The automatic shutdown feature helps conserve power; ensure it is enabled if prolonged

standby is needed.

- **Incorrect characters after scanning (e.g., French keyboard issue):**
 - If your host device uses a non-English keyboard layout, you may need to scan a specific configuration barcode from the full user manual to adjust the scanner's output to match your keyboard layout (e.g., French, German). Refer to the comprehensive manual for language-specific setup barcodes.

7. SPECIFICATIONS

Feature	Specification
Model Number	BS-2D-BB0030
Brand	MUMUQ
Connectivity Technology	Bluetooth, USB Cable, 2.4G Wireless
Compatible Devices	Desktop, Laptop, Smartphone, Tablet
Power Source	Battery Powered
Battery Capacity	1100mAh
Operating Voltage	3.7 volts
Item Dimensions (D x W x H)	0.78"D x 1.26"W x 3.5"H
Item Weight	50 g (1.76 oz)
Drop Resistance	1.5m (4.9ft)
2.4G Wireless Range	Up to 100m (328ft) barrier-free
Bluetooth Range	Over 50m (164ft) barrier-free
Data Storage Capacity	Up to 20,000 commodity codes
Energy Specifications Met	CE

8. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation included with your purchase or contact MUMUQ customer service through the retailer where the product was purchased. Keep your purchase receipt for warranty claims.