

symcode MJ-2030-B

Symcode Bluetooth Wireless Barcode Scanner Instruction Manual

Model: MJ-2030-B | Brand: symcode

1. INTRODUCTION

This manual provides detailed instructions for the operation and maintenance of your Symcode Bluetooth Wireless Barcode Scanner. This versatile 3-in-1 scanner supports Bluetooth, 2.4G wireless, and USB wired connections, offering flexible integration with various systems. It is designed for efficient and accurate scanning of both 1D and 2D barcodes, including those on screens or damaged labels.



Figure 1: Symcode Bluetooth Wireless Barcode Scanner with Auto-Sensing Stand.

2. SETUP & CONNECTION

2.1. Bluetooth Connection

The scanner can connect to your device via Bluetooth for wireless operation. To pair, long press the trigger button for 8 seconds until the indicator light flashes, then select 'BarCode Scanner' from your device's Bluetooth settings.



Figure 2: Bluetooth connection process and indicator.

Video: Demonstrates the three connection modes, including Bluetooth pairing.

2.2. 2.4G Wireless Connection

For 2.4G wireless connection, insert the provided USB dongle into your computer's USB port. The scanner will automatically connect. This mode offers a transmission distance of up to 200m in barrier-free environments and 30m with obstacles.

2.4G Wireless Pairing Method:

A: Scan the setting code of Dongle.



B: Scan the setting code Forced Pairing with Dongle, The scanner will enter pairing state, and the blue light on the left flashes quickly.



C: Insert Dongle into the device, after a beep prompt sound, the scanner is paired successfully, and the blue light on the right is always on.

Notes: When the scanner is entered 2.4G pairing status and it does not get connected with your device within 1 minutes, it will beep twice lowly and longly. You need to repeat above-mentioned 3 steps to make it connect with your device. (When the scanner is in the 2.4G pairing status, double-click can make it exit the pairing mode).

Notes: one 2.4G wireless dongle can accept the data from multiple scanners. (It is recommended below 8 scanners of the same type) (Eg: First scanner get connected with wireless dongle through ABC steps, then pull out the wireless dongle from your device, and repeat ABC steps to get connected with second scanner, so does third scanner same).

Figure 3: Barcodes for 2.4G wireless pairing and forced pairing.

Note: One 2.4G wireless dongle can receive data from multiple scanners (up to 8 of the same type). To connect additional scanners, follow the ABC steps for each scanner: (A) Scan the setting code of the Dongle. (B) Scan the setting code 'Forced Pairing with Dongle'. (C) Insert the Dongle into the device. After a beep, the scanner is paired successfully.

Video: Illustrates the 'More-to-one' mode, allowing multiple scanners to connect to a single receiver.

2.3. USB Wired Connection

Connect the scanner directly to your computer using the provided USB cable. This mode allows for instant data transmission and continuous operation without battery concerns.

Video: Shows the simple plug-and-play functionality via USB connection.

3. OPERATING MODES

The Symcode scanner offers three distinct scanning modes to suit various operational needs:

- **Manual Trigger Mode:** Press the trigger button to scan barcodes.
- **Continuous Scanning Mode:** The scanner's light remains on, continuously scanning codes without needing to press the trigger.
- **Automatic Sensing Mode:** When placed on its stand, the scanner automatically switches to auto-sense mode, scanning codes when they are presented in front of its window. No setup code is required for this transition.



Figure 4: Visual representation of Manual Trigger, Continuous Scanning, and Automatic Sensing Modes.

Video: Demonstrates how placing the scanner on its stand automatically activates auto-scanning mode.

3.1. Data Upload Modes

The scanner supports two data upload modes:

- **Instant Upload Mode:** Data is transmitted to your device immediately after each successful scan.
- **Storage Mode:** Barcode data is stored in the scanner's internal memory (16MB, up to 50,000+ barcodes). Data can be uploaded later by scanning a specific setting code in the user manual.

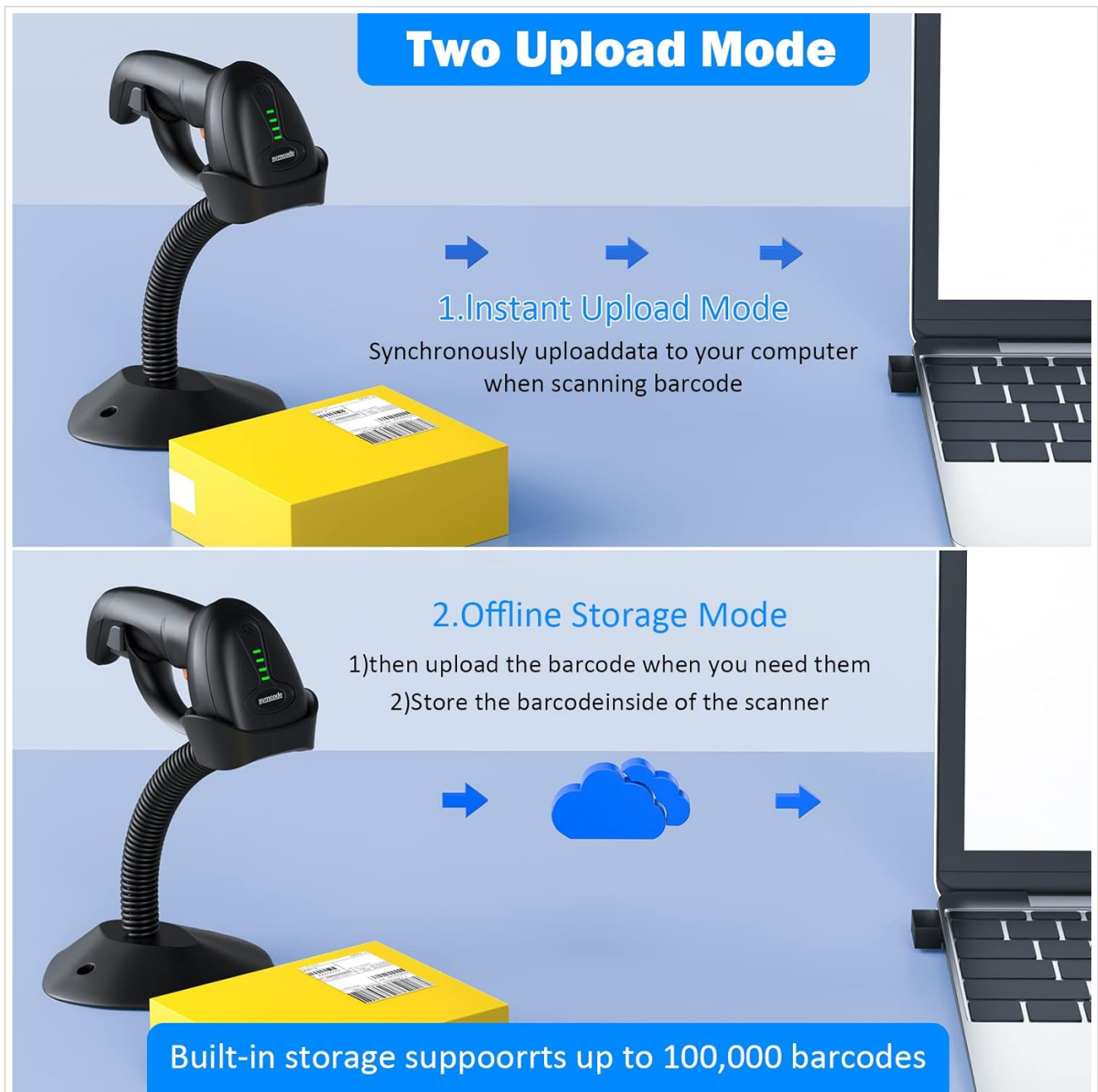


Figure 5: Explanation of Instant Upload Mode and Offline Storage Mode.

4. FEATURES & CAPABILITIES

4.1. Decoding Capabilities

Equipped with a 32-bit CPU, the scanner offers super decoding ability, reaching speeds of up to 300 scans per second. It can easily scan a wide range of 1D and 2D barcodes, including QR, DataMatrix, PDF417, Aztec, and Hanxin codes, from various surfaces such as labels, paper, and mobile phone or computer displays. It can even read partly damaged, dirty, or poorly printed barcodes.



Figure 6: The scanner's ability to read both 1D and 2D barcodes from printed materials and screens.

Video: Demonstrates the scanner's efficiency in capturing various 1D and QR codes.

4.2. Battery & Power Management

The scanner is equipped with an 1800mAh rechargeable lithium battery, providing up to 24 hours of continuous operation and 60 days of standby time. A unique battery indicator light shows the remaining power level, preventing unexpected power loss.



Figure 7: Battery level indicators and options to turn sound/vibration on/off.

Video: Highlights the unique battery level indicator feature.

4.3. Customization Options

The scanner offers multiple configuration options, including adding prefixes or suffixes to scanned data, hiding barcode characters, and adjusting volume settings. These customizations can be set by scanning specific configuration barcodes found in the full user manual.



Figure 8: Examples of barcode programmability for prefix, suffix, and character manipulation.

4.4. Long Transmission Distance

The 2.4G wireless connection provides a robust transmission range, allowing for flexible movement during scanning operations. It can reach up to 200 meters in open, barrier-free environments and 30 meters in environments with obstacles.



Long Transmission Distance

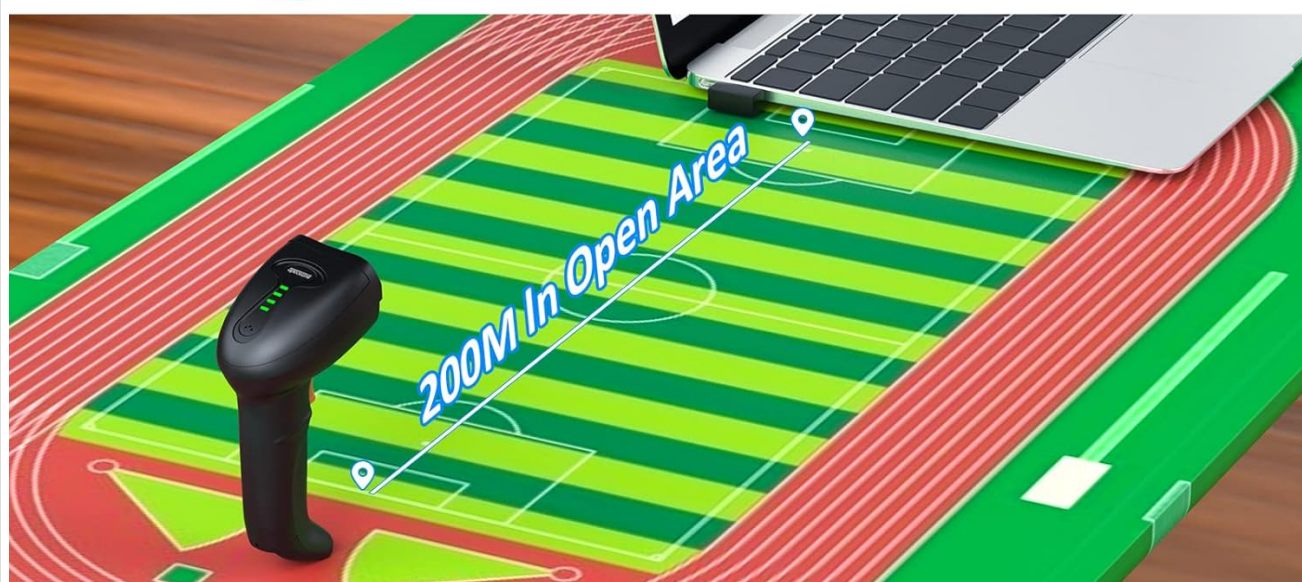


Figure 9: Visual representation of the scanner's long transmission distance capabilities.

5. SPECIFICATIONS

Feature	Detail
Product Dimensions	6.89 x 4.49 x 3.31 inches
Item Weight	9.9 ounces
Model Number	MJ-2030-B
Battery Type	1 Lithium Polymer battery (included)
Battery Capacity	1800mAh
Continuous Working Time	24 hours
Charging Time	3.5 hours

Feature	Detail
Standby Time	60 days
Connectivity Technology	Bluetooth, Wireless (2.4G), USB Cable
Compatible Devices	Smartphones, Computers, POS systems, iPhones, iPads
Operating Systems	Windows 11/10/8/7/XP, Mac OS, iOS, Android, Linux
Decoding Speed	Up to 300 scans/sec
Supported Barcodes	1D, 2D (QR, DataMatrix, PDF417, Aztec, Hanxin, etc.)

6. MAINTENANCE

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

- **Cleaning:** Use a soft, dry cloth to clean the scanner's exterior. For the scanning window, use a lint-free cloth lightly dampened with a mild, non-abrasive cleaner. Avoid harsh chemicals or abrasive materials.
- **Storage:** Store the scanner in a cool, dry place away from direct sunlight, extreme temperatures, and high humidity.
- **Battery Care:** For prolonged storage, ensure the battery is partially charged (around 50%). Avoid fully discharging the battery for extended periods.
- **Handling:** While the scanner is designed with anti-shock silicone, avoid dropping it from excessive heights to prevent potential internal damage.

7. TROUBLESHOOTING

If you encounter issues with your scanner, try the following basic troubleshooting steps:

- **Scanner Not Responding:** Ensure the scanner is charged. Check the connection mode (Bluetooth, 2.4G, or USB) and verify it's properly paired or connected to your device.
- **No Data Transmission:** Confirm the scanner is in the correct upload mode (Instant or Storage). If in Storage Mode, ensure you have scanned the 'Upload Data' setting code.
- **Poor Scanning Performance:** Ensure the barcode is clean and not excessively damaged. Adjust the distance and angle of the scanner to the barcode. Check for sufficient lighting.
- **Sound/Vibration Issues:** Refer to the full user manual for specific setting codes to adjust or disable sound and vibration feedback.
- **Connection Drops:** For 2.4G wireless, ensure the dongle is securely inserted and within range. For Bluetooth, ensure no interference from other devices and that the scanner is within the effective range.

For more detailed troubleshooting or persistent issues, please refer to the comprehensive user manual provided with your product or contact Symcode customer support.

8. WARRANTY & SUPPORT

Symcode products are backed by a manufacturer's warranty. For specific warranty terms, duration, and claim procedures, please refer to the warranty card included in your product packaging or visit the official Symcode

website. For technical support, product inquiries, or service requests, please contact Symcode customer service through the contact information provided in your product documentation.