symcode MJ-2020DA-BL

Symcode Bluetooth 2D QR Barcode Scanner User Manual

Model: MJ-2020DA-BL

1. Introduction

This manual provides detailed instructions for the setup, operation, and maintenance of your Symcode Bluetooth 2D QR Barcode Scanner (Model: MJ-2020DA-BL). Please read this manual thoroughly before using the device to ensure proper functionality and to maximize its lifespan.

2. Product Overview

2.1 Key Features

- **3-in-1 Connectivity:** Supports 2.4G Wireless, Bluetooth 4.1, and USB 2.0 Wired connections for versatile operation.
- **Tactile Feedback:** Provides a mild vibration alert upon successful scans, with an option to mute the buzzer for quiet environments.
- **Extended Transmission Range:** Up to 200m in open air via 2.4G wireless mode and 30m via Bluetooth mode.
- **Industrial Durability:** IP67 rated for dustproof and waterproof performance, capable of being rinsed with tap water and submerged for up to 30 minutes. Features a robust TPU protective case and withstands 6ft (1.8m) drops to concrete.
- **Broad Compatibility:** Connects with smartphones, tablets, and PCs running Windows XP/7.0/8.0/Win 10, Windows Mobile, Android OS, and iOS devices.
- **Advanced Customization:** Offers over 180 configuration options, including editable prefixes/suffixes (up to 32 digits), partial barcode hiding, and adding keyboard keys/combinations.
- **High Decoding Ability:** Capable of decoding both 1D and 2D barcodes, including UPC/EAN, QR Code, Data Matrix, PDF417, Code 39, Code 128, and more, even with blurring or incompleteness.
- **Large Storage Capacity:** Internal memory can store up to 10,000 codes before uploading.

2.2 Package Contents

The package includes the following items:

- Symcode Barcode Scanner (Model: MJ-2020DA-BL)

- Charging Cord
- User Manual (This document)

2.3 Product Diagram

Figure 2.3.1: Symcode Bluetooth 2D QR Barcode Scanner with its charging stand. The scanner is black and orange, designed for comfortable handheld use, and rests securely in its black charging base.

3. Setup

3.1 Charging the Scanner

Before initial use, fully charge the scanner. Connect the charging cord to the scanner and a power source. The charging time is approximately 2.5 hours, providing a battery life of up to 30 hours of continuous use. Note that the base itself does not charge; the USB cable must be plugged directly into the scanner for charging.

3.2 Connection Modes

The scanner supports three connection modes: Wired, 2.4GHz Wireless, and Bluetooth. Choose the mode that best suits your operational needs.

Figure 3.2.1: Visual representation of the scanner's three connection modes: Wired (USB cable for charging and data), 433MHz Wireless (with a dedicated dongle for PC), and Bluetooth (direct connection to mobile devices without a driver).

3.2.1 Wired Connection

Connect the scanner directly to your computer using the provided USB cable. The cable serves as both a charging cable and a data transmission cable. This mode is plug-and-play and requires no additional drivers.

3.2.2 2.4GHz Wireless Connection

For 2.4GHz wireless operation, plug the wireless dongle (if included, typically integrated with the charging stand) into your computer's USB port. The scanner will automatically pair with the dongle. This mode offers a transmission range of up to 200m in open air.

3.2.3 Bluetooth Connection

To connect via Bluetooth, ensure your device's Bluetooth is enabled. The scanner can pair with smartphones, tablets, and PCs. No driver installation is required. This mode provides a transmission range of up to 30m in open air.

Figure 3.2.2: The scanner demonstrates strong compatibility with multiple operating systems, including Android, Apple (iOS/macOS), Windows, and Linux, allowing seamless integration with various devices.

4. Operating Instructions

4.1 Scanning Barcodes

Point the scanner's light beam at the barcode you wish to scan. A successful scan will be indicated by a mild vibration. The buzzer can be muted for quiet operation if desired.

Figure 4.1.1: The scanner possesses superior decoding capabilities for both 1D and 2D barcodes, including Data Matrix, QR Code, and PDF417. It can even decode blurred or incomplete codes. Example barcodes shown include 20123456789, 2125551212, 4603146002134, and 1234567890135.

4.2 Data Upload Modes

The scanner supports two primary data upload modes:

- **Instant Upload Mode:** Data is synchronously uploaded to your connected device immediately after scanning.
- **Storage Mode:** Scanned barcodes are stored in the scanner's 16MB internal memory (up to over 50,000 barcodes). Data can be uploaded to your device later when needed.

Figure 4.2.1: Comparison of Instant Upload Mode, where data transmits immediately, and Storage Mode, where data is saved internally for later batch upload.

4.3 Adjusting the Charging Stand

The charging stand's base can be rotated 45 degrees, allowing for flexible positioning of the scanner during charging or when used in presentation mode.

Figure 4.3.1: The scanner's base can be adjusted by rotating 45 degrees, providing ergonomic flexibility for various scanning setups.

4.4 Application Scenarios

The Symcode barcode scanner is designed for various industrial and commercial applications, including but not limited to:

- Express and Logistics
- Warehouse Management
- Supermarket and Retail
- File Room and Document Management

Figure 4.4.1: Examples of the scanner's use in different environments, highlighting its versatility in express delivery, warehouse operations, retail, and file management.

5. Maintenance

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

- **Cleaning:** Regularly wipe the scanner's exterior with a soft, damp cloth. For the scanning window, use a lint-free cloth and a mild cleaning solution if necessary. Avoid abrasive cleaners.
- **Water Resistance:** The scanner is IP67 rated, meaning it is dustproof and can withstand immersion in water up to 1 meter for 30 minutes. It can be rinsed with tap water. However, ensure the charging port is dry before connecting the charging cable.
- **Drop Protection:** The scanner is designed to withstand drops from 6ft (1.8m) onto concrete due to its robust TPU protective case and internal consolidation. While durable, avoid unnecessary drops.
- **Storage:** Store the scanner in a cool, dry place away from direct sunlight and extreme temperatures.
- **Battery Care:** To preserve battery life, avoid fully discharging the battery frequently. If storing for extended periods,

charge the battery to about 50% and recharge every few months.

6. Troubleshooting

If you encounter issues with your Symcode barcode scanner, please refer to the following common problems and solutions:

Problem	Possible Cause / Solution
Scanner does not power on.	Battery is low or depleted. Charge the scanner for at least 2.5 hours.
Scanner does not connect via Bluetooth/2.4GHz.	Ensure the scanner is in the correct pairing mode. Check if the dongle is properly inserted for 2.4GHz. Verify Bluetooth is enabled on your host device and the scanner is discoverable. Move closer to the host device to reduce interference.
Scanner does not read barcodes.	Ensure the barcode is not damaged or poorly printed. Check if the barcode type is supported by the scanner. Clean the scanning window if it's dirty. Adjust the distance and angle of the scanner to the barcode.
Scanned data is incorrect or incomplete.	Verify the scanner's configuration settings (e.g., prefix/suffix, data format). Ensure the host device's input method is set correctly.

If the problem persists, please contact Symcode customer support for assistance. Refer to the "Support" section for contact information.

7. Specifications

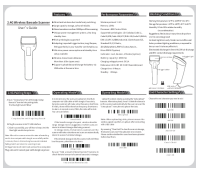
Feature	Detail
Model	MJ-2020DA-BL
Input Voltage	DC5V±0.25V
Current	25 mA (work); 95 mA (instantaneous)
Decoding Speed	100 times / sec
Wireless Range (2.4G)	Up to 200m (open air)
Wireless Range (Bluetooth)	Up to 30m (open air)
Charging Time	2.5 Hours
Battery Life	30 Hours
Battery Type	1 Lithium Ion battery (included)
Product Dimensions	8 x 8 x 3 inches

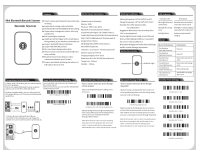
Feature	Detail
Item Weight	1.59 pounds
IP Rating	IP67 (Dustproof, Waterproof)
Drop Resistance	Withstands 6ft (1.8m) drops to concrete
Supported Barcode Types	1D: UPC/EAN, Code 39, Code 128, Codabar, Interleaved 2 of 5, Code 93, MSI, Code 11, RSS variants, Chinese 2 of 5. 2D: PDF417, QR-code, Data Matrix.
Internal Storage	16MB (up to 50,000 barcodes)
Compatible Operating Systems	Windows XP/7.0/8.0/Win 10, Windows Mobile, Android OS, iPhone/iPad (iOS), Linux

8. Support and Warranty

Symcode is committed to providing high-quality products and customer satisfaction. While specific warranty details are not provided in this manual, please retain your proof of purchase for any warranty claims.
For technical support, troubleshooting assistance, or product customization inquiries, please contact Symcode customer service. Contact information can typically be found on the Symcode official website or through your retailer.
You can also visit the official Symcode store on Amazon for more information and support:Symcode Amazon Store.

Related Documents - MJ-2020DA-BL

	2.4G Wireless Barcode Scanner User's Guide | Symcode Comprehensive user's guide for the Symcode 2.4G Wireless Barcode Scanner, detailing features, performance parameters, operating modes, setup options, and specifications.
	Symcode MJ-340 2D Barcode Scanner User Manual Comprehensive user manual for the Symcode MJ-340 2D Barcode Scanner, covering setup, performance specifications, communication modes, and configuration options.

Беспроводной Bluetooth/2.4G Сканер Штрих-кода **Руководство пользователя**	[Wireless Bluetooth/2.4G Barcode Scanner User Manual] Comprehensive user manual for the Wireless Bluetooth/2.4G Barcode Scanner, detailing its features, technical specifications, operating modes, connection methods, safety precautions, and troubleshooting tips.
TFT Screen Intellectual Wireless Barcode Scanner User 's manual  BROCHURE	[TFT Screen Intellectual Wireless Barcode Scanner User Manual] User manual for the TFT Screen Intellectual Wireless Barcode Scanner, detailing its features, applications, and operating instructions. Learn about its triple-mode connectivity, large storage capacity, and ergonomic design.
Bluetooth/2.4G Wireless Barcode Scanner User 's manual BROCHURE	[Bluetooth/2.4G Wireless Barcode Scanner User Manual] Comprehensive user manual for the Bluetooth/2.4G Wireless Barcode Scanner, covering features, setup procedures, operating modes, troubleshooting, and indicator explanations.
	[Shenzhen Alacrity MJ-X5 Mini Bluetooth Barcode Scanner User Guide] Comprehensive guide for the Shenzhen Alacrity MJ-X5 Mini Bluetooth Barcode Scanner, covering features, performance parameters, connection methods, wireless pairing (2.4GHz and Bluetooth), and various operational settings for efficient data capture.