symcode MJ-4590A

Symcode Barcode Scanner User Manual

Model: MJ-4590A

1. Introduction

This user manual provides comprehensive instructions for the Symcode MJ-4590A Wireless 1D Barcode Scanner with Auto-Sensing Stand. This device is designed for efficient and accurate barcode data capture in various business environments. Please read this manual thoroughly before operating the scanner to ensure proper use and optimal performance.

2. Package Contents

Upon unpacking, please verify that all the following items are included in your package:

- Symcode Barcode Scanner (Model: MJ-4590A)
- Charging Cord (USB)
- Auto-Sensing Stand
- USB Receiver
- User Manual (this document)

3. Setup

3.1 Initial Charging

Before first use, fully charge the scanner. Connect the provided charging cord to the scanner and a USB power source. The battery indicator lights on the scanner will show charging progress.



Figure 3.1: The image displays the scanner's battery life and charging details, indicating 30 hours of scanning time, 720 hours of standby time, and 4 hours of charging time for its 1800mAh rechargeable battery.

3.2 Connecting the USB Receiver

Insert the USB receiver into an available USB port on your computer (Desktop or Laptop). The system will automatically install the necessary drivers.

3.3 Pairing Modes

The scanner supports two pairing modes:

- **One-to-One Mode:** In this default mode, one scanner transmits barcode data to a single USB receiver.
- **More-to-One Mode:** Multiple scanners can transmit barcode data to a single USB receiver. This mode is ideal for environments where several users are scanning simultaneously, such as a warehouse. Refer to the detailed instructions in the full manual for switching modes.



Figure 3.2: This image illustrates the two data upload modes: *Instant Upload Mode*, where data is synchronously uploaded to the computer upon scanning, and *Offline Storage Mode*, which allows storing up to 100,000 barcodes internally for later upload.

3.4 Auto-Sensing Stand Setup

Place the scanner into the auto-sensing stand. The scanner will automatically switch to auto-scanning mode when placed on the stand, eliminating the need to scan a setup code from the manual.



Figure 3.3: The image shows the Symcode barcode scanner resting in its auto-sensing stand, ready for use.

4. Operating Instructions

4.1 Basic Scanning Operation

Point the scanner's laser beam at the barcode you wish to scan. Ensure the entire barcode is within the laser line. A successful scan will typically be indicated by an audible beep and/or a visual confirmation light.



Figure 4.1: A user is shown actively scanning a barcode on a package using the handheld Symcode scanner.

4.2 Supported Barcode Types

The scanner supports a wide range of 1D barcode types, including but not limited to:

- UPC/EAN, UPC/EAN with Supplemental
- UCC/EAN 128
- Code 39, Code 39 Full ASCII, Trioptic Code 39
- Code 128 Full ASCII
- Codabar
- Interleaved 2 of 5, Discrete 2 of 5
- Code 93, MSI, Code 11
- RSS variants, Chinese 2 of 5
- Extended ASCII support for Code 128 barcodes

4.3 Advanced Configuration Options

The scanner offers over 180 configuration options to customize its behavior. These include:

- Adding prefixes and suffixes to scanned data.
- Deleting starting or ending characters from scanned data.
- Adding keyboard keys or combinations to the scanning operation.
- Adjusting volume settings.
- Enabling or disabling automatic sensing.

Refer to the comprehensive programming guide (usually found in the full user manual or on the manufacturer's website) for detailed instructions on implementing these configurations by scanning specific setup barcodes.



Figure 4.2: This image highlights the scanner's programmable features, including support for prefix & suffix settings and the ability to insert or delete characters from scanned data.

4.4 Data Transmission

The scanner utilizes 2.4G wireless technology for data transmission. It offers a long transmission distance of up to 200m (328ft) in open air and 30m (98ft) indoors. Data can be uploaded instantly or stored offline for later batch upload (up to 10,000 codes).



Figure 4.3: The image demonstrates the long transmission distance capabilities of the scanner, showing an indoor range of 30m/98ft and an open area range of 200m.

5. Maintenance

5.1 Cleaning

To clean the scanner, gently wipe the exterior with a soft, damp cloth. Do not use abrasive cleaners or solvents, as these may damage the device. Ensure the scanning window is clean and free of dust or smudges for optimal performance.

5.2 Battery Care

The scanner is equipped with an 1800mAh rechargeable Lithium Polymer battery. To prolong battery life:

- Avoid fully discharging the battery frequently.
- Store the scanner in a cool, dry place when not in use for extended periods.

- Charge the battery using only the provided charging cord.

5.3 Durability and Handling

The scanner is designed with anti-shock features to withstand drops from up to 1.5 meters. However, avoid unnecessary drops or impacts to ensure the longevity of the device.



Figure 5.1: This image illustrates the anti-shock capability of the scanner, indicating it can withstand drops from a height of 1.5 meters.

6. Troubleshooting

This section addresses common issues you might encounter with your Symcode barcode scanner. If you experience problems not listed here, please refer to the full user manual or contact customer support.

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Scanner not responding	Low battery; USB receiver not connected; Not paired.	Charge the scanner; Ensure USB receiver is securely plugged in; Re-pair the scanner with the receiver.
Cannot scan barcodes	Barcode damaged/unreadable; Scanning window dirty; Incorrect barcode type setting.	Try scanning a different barcode; Clean the scanning window; Check scanner configuration for supported barcode types.
Data not transmitting to computer	Out of wireless range; Receiver issue; Incorrect pairing mode.	Move closer to the receiver; Try a different USB port; Verify pairing mode (one-to-one/more-to-one).

7. Specifications

Feature	Detail
Model Number	MJ-4590A
Input Voltage	DC5V±0.25v
Current	25 mA (work); 95 mA (instantaneous)
Decoding Speed	100 times / sec
Wireless Range	40m (void); 200m (open air); 30m (indoor)
Charging Time	2.5 Hours
Battery Life	30 Hours (scanning); 720 Hours (standby)
Battery Type	1 Lithium Polymer battery (1800mAh)
Connectivity Technology	USB Cable, 2.4G Wireless
Compatible Devices	Desktop, Laptop (Windows, Mac, Linux)
Item Weight	1.21 pounds
Package Dimensions	7.4 x 5.87 x 4.09 inches



Figure 7.1: This image provides detailed dimensions of the Symcode barcode scanner and its stand, showing measurements in both millimeters and inches.

8. Warranty and Support

For warranty information and technical support, please contact Symcode customer service. Details can typically be found on the manufacturer's official website or through the retailer where the product was purchased.
Manufacturer: symcode
Model: MJ-4590A

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