

Mxtech YHD-1100L

Mxtech YHD-1100L 1D Barcode Scanner User Manual

Model: YHD-1100L

1. INTRODUCTION

This user manual provides comprehensive instructions for the Mxtech YHD-1100L 1D Barcode Scanner. It covers product features, setup procedures, operational guidelines, maintenance tips, and troubleshooting information to ensure efficient and reliable use of your device. Please read this manual thoroughly before operating the scanner.

2. PRODUCT OVERVIEW

2.1 Key Features

- **Ergonomic Design:** Features a non-slip handle and sturdy buttons for comfortable and prolonged operation.
- **High-Speed Scanning:** Equipped with a 32-bit high-speed processor, achieving a decoding speed of 300 times per second.
- **Durable Construction:** Built with highly integrated ABS material, offering IP54 protection grade for wear-resistance and anti-fall capabilities.
- **Versatile Scanning Modes:** Supports both key-triggered scanning and automatic continuous scanning.
- **Wide Compatibility:** Connects via USB, RS232, PS2, or TTL interfaces, compatible with various systems including desktop and laptop computers.
- **Optimal Reading Accuracy:** Capable of reading barcodes with a minimum accuracy of 4 mil.

2.2 Package Contents

Upon unpacking, please verify that all items listed below are present and in good condition:

- 1 x Mxtech YHD-1100L 1D Barcode Scanner
- 1 x User Manual



Figure 2.1: The Mxtech YHD-1100L 1D Barcode Scanner, showing the scanner unit and its integrated USB cable.



Figure 2.2: The scanner held in a user's hand, highlighting its ergonomic shape and comfortable grip.

3. SETUP

Follow these steps to set up your Mxtech YHD-1100L 1D Barcode Scanner:

1. **Connect the Scanner:** Identify the appropriate port on your computer or host device. The scanner supports USB, RS232, PS2, and TTL interfaces. For most common setups, connect the USB cable from the scanner directly to an available USB port on your desktop or laptop computer.
2. **Driver Installation (if necessary):** In most modern operating systems (Windows, macOS, Linux), the scanner will be recognized automatically as a standard HID (Human Interface Device) keyboard or serial device, and no additional drivers are required. If prompted, follow the on-screen instructions for driver installation.

3. **Test Connection:** Open a text editor (e.g., Notepad, Word) or any application that accepts keyboard input. Scan a known 1D barcode. The barcode data should appear in the text editor, confirming successful setup.



Figure 3.1: The scanner's compatibility with various devices, including desktops, laptops, and mobile devices (via appropriate adapters, if needed).

4. OPERATING INSTRUCTIONS

The Mxtech YHD-1100L scanner offers two primary scanning modes:

4.1 Key-Triggered Scan Mode

1. Hold the scanner comfortably in your hand.
2. Point the scanning window towards the 1D barcode you wish to read.
3. Press and hold the trigger button. A red laser line will emit from the scanning window.
4. Align the laser line across the entire barcode. Once successfully read, the scanner will typically emit an audible beep and/or

an indicator light will flash.

5. Release the trigger button. The scanned data will be transmitted to your connected device.



Figure 4.1: Demonstrating the proper grip and trigger activation for scanning a barcode.

4.2 Automatic Continuous Scan Mode

This mode allows the scanner to continuously emit the laser and read barcodes without needing to press the trigger for each scan. This mode is typically activated by scanning a specific configuration barcode found in a more detailed programming manual (not included in this basic guide).

1. If configured for continuous scan, simply present the barcode within the scanning range (5-30 cm).
2. The scanner will automatically detect and read the barcode.

Note: For advanced configuration options, such as enabling/disabling continuous scan mode, adding prefixes/suffixes, or changing interface settings, please refer to the comprehensive programming manual provided by the manufacturer.

5. MAINTENANCE

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

- **Cleaning the Scanning Window:** Regularly clean the scanning window with a soft, lint-free cloth. If necessary, dampen the cloth slightly with water or a mild, non-abrasive cleaning solution. Avoid harsh chemicals that could damage the plastic.
- **General Cleaning:** Wipe the exterior of the scanner with a soft, dry cloth. Do not immerse the scanner in water or any cleaning liquids.

- **Handling:** Although the scanner has an IP54 protection grade and is designed to be wear-resistant and anti-fall, avoid dropping it from excessive heights or subjecting it to severe impacts.
- **Storage:** Store the scanner in a cool, dry place away from direct sunlight and extreme temperatures when not in use.
- **Cable Care:** Avoid bending or twisting the cable excessively, which can lead to internal damage.



Figure 5.1: Visual representation of the scanner's durable construction, highlighting its resistance to wear and falls.

6. TROUBLESHOOTING

If you encounter issues with your Mxtech YHD-1100L scanner, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Scanner does not power on or emit laser.	◦ Loose cable connection. ◦ USB port malfunction. ◦ Insufficient power from the port.	◦ Ensure the cable is securely connected to both the scanner and the computer. ◦ Try connecting to a different USB port. ◦ If using a USB hub, connect directly to the computer or use a powered hub.

Problem	Possible Cause	Solution
Scanner reads barcodes incorrectly or not at all.	- Dirty scanning window. - Barcode is damaged or poorly printed. - Incorrect scanning angle or distance. - Scanner is not configured for the barcode type.	- Clean the scanning window as described in the Maintenance section. - Try scanning a different, known-good barcode. - Adjust the scanning angle and distance (optimal 5-30 cm). - Refer to the programming manual to ensure the scanner supports the barcode symbology.
Scanned data does not appear in the application.	- Application not in focus. - Incorrect interface setting (e.g., scanner set to RS232 but connected via USB HID).	- Ensure the cursor is active in the desired input field of your application. - Verify the scanner's interface configuration matches your connection type. Consult the programming manual if needed.

7. SPECIFICATIONS

The following table details the technical specifications of the Mxtech YHD-1100L 1D Barcode Scanner:

Feature	Detail
Model	YHD-1100L
CPU	ARM 32-bit for Cortex
Light Source	650nm visible diode
Print Contrast	≥25%
Reading Accuracy	4mil
Decoding Speed	300 times/second
Bit Error Rate	1/5 million
Scanning Width	5-30 cm
Interfaces	USB, RS232, PS2, TTL
Voltage	5/3.3 V
Current (Working)	40mA
Current (Standby)	28mA
Current (Max Peak)	154mA
Protection Grade	IP54
Compatible Devices	Desktop, Laptop

32-bit high-speed processor

300 times/second scanning speed



Figure 7.1: The scanner's internal processing capabilities, emphasizing its speed and efficiency.

8. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided at the time of purchase or contact your retailer. Mxtech is committed to providing reliable products and customer assistance.

Please retain your proof of purchase for any warranty claims.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question