

## OEM IDATA LS-6030U

# EMACHINE Laser Barcode Scanner User Manual

Model: IDATA LS-6030U

## 1. INTRODUCTION

This manual provides detailed instructions for the proper use, setup, and maintenance of your EMACHINE Laser Barcode Scanner, model IDATA LS-6030U. This device is designed for fast and simple barcode reading across a wide variety of applications, featuring an ergonomic design for enhanced handling and a rubber coating for high protection.

## 2. PACKAGE CONTENTS

Please check the package contents carefully. If any items are missing or damaged, contact your vendor immediately.

- Laser Barcode Scanner
- USB Cable (1.8 meters)
- User Manual (this document)

## 3. PRODUCT FEATURES

The EMACHINE Laser Barcode Scanner offers robust performance and user-friendly features:

- **Light Source:** 650 nm (+10/-5 nm) Laser Diode, 1mW (peak)
- **Depth of Field:** (4 mils) 400 mm
- **Scan Speed:** 100 scans/sec
- **Resolution:** 0.1 mm (4mils) - Code 39
- **Print Contrast:** 45% or higher
- **Scan Angle:** 38°
- **Indicators:** Green/Red LED & audio signal
- **Interface:** USB
- **Supported Symbolologies:** Code 128, Codabar, Interleaved 2 of 5, Industrial 2 of 5, Matrix 2 of 5, UPC-A, UPC-E, EAN-13, EAN-8, MSI, PLESSEY, Code 11, Code 39, Code 32, Code 93

- Ergonomic design for comfortable handling.
- Durable rubber and ABS plastic construction for protection.
- No moving parts inside for enhanced durability.
- Easily programmable.

## 4. SETUP INSTRUCTIONS

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Follow these steps to set up your barcode scanner:

1. **Connect the USB Cable:** Locate the USB cable provided in the package. Insert the smaller end of the USB cable into the port at the base of the barcode scanner handle.
2. **Connect to Computer:** Insert the standard USB-A end of the cable into an available USB port on your computer or point-of-sale (POS) system.
3. **Driver Installation (Automatic):** The scanner is typically plug-and-play. Your operating system should automatically detect the device and install the necessary drivers. Wait for the installation to complete, which is usually indicated by a notification.
4. **Test Connection:** Open a text editor (like Notepad or Word) or any application where you want to input scanned data. Point the scanner at a known barcode (e.g., from a book or product) and press the trigger button. The scanner should emit a laser beam and an audible beep upon successful scan. The barcode data should appear in your open application.



Figure 4.1: Barcode scanner in use, demonstrating the scanning process.

## 5. OPERATING INSTRUCTIONS

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Operating the EMACHINE Laser Barcode Scanner is straightforward:

1. **Power On:** The scanner receives power directly from the USB connection. Once connected to a powered USB port, it is ready for operation.
2. **Aiming:** Hold the scanner comfortably in your hand. Point the scanning window towards the barcode you wish to read. Ensure the laser beam covers the entire barcode.
3. **Scanning:** Press and hold the trigger button located on the handle. A red laser line will project from the scanning window.

4. **Successful Scan:** Upon a successful read, the scanner will emit an audible beep, and the LED indicator will flash green. The scanned data will be transmitted to your connected computer or POS system, appearing in the active input field.
5. **Unsuccessful Scan:** If the scanner does not beep or the LED does not flash green, reposition the scanner, adjust the distance, or try scanning from a different angle. Ensure the barcode is not damaged or obscured.



Figure 5.1: Front view of the barcode scanner.



Figure 5.2: Side view of the barcode scanner, showing its profile.

## 6. SPECIFICATIONS

Detailed technical specifications for the EMACHINE Laser Barcode Scanner:

### 6.1. Electrical Characteristics

- **Input Voltage:** 5 VDC  $\pm$  0.5V
- **Current Consumption:** 60mA maximum
- **Certifications:** FCC Class B, CE, IEC60825 Class II, CDRH: Class II

### 6.2. Physical Characteristics

- **Dimensions (L\*W\*H):** 90 x 60 x 160 mm
- **Weight:** 110 g ± 5 g (without cable)
- **Material:** Rubber & ABS plastic
- **Operating Temperature:** 0° to 50° C
- **Storage Temperature:** -20° to 60° C
- **Operating Humidity:** 10% to 85% non-condensing
- **Storage Humidity:** 5% to 95% non-condensing
- **Ambient Light Immunity:** Sunlight up to 36000 Lux
- **Drop Resistance:** 1.5m drop

### 6.3. Reading Performance (Based on Code 39 label PCS=0.9 and 600 lux illumination, tolerance ± 1cm)

- **4 mils:** 60 ~ 90 mm
- **5 mils:** 55 ~ 120 mm
- **13 mils:** 45 ~ 200 mm
- **20 mils:** 45 ~ 300 mm
- **40 mils:** 65 ~ 400 mm

## 7. MAINTENANCE

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

- **Cleaning:** Regularly clean the scanning window with a soft, lint-free cloth. For stubborn smudges, dampen the cloth slightly with water or a mild, non-abrasive cleaner. Do not use harsh chemicals or abrasive materials, as they can scratch the window and impair scanning performance.
- **Storage:** When not in use, store the scanner in a clean, dry environment, away from direct sunlight, extreme temperatures, and excessive dust.
- **Cable Care:** Avoid bending or twisting the USB cable excessively, especially near the connectors, to prevent internal wire damage. Do not pull the cable to disconnect the scanner; always grasp the connector itself.
- **Avoid Drops:** While the scanner has drop resistance, repeated or severe drops can still cause damage. Handle the device with care.

## 8. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Scanner does not power on or respond.	USB cable not properly connected or faulty USB port.	Ensure the USB cable is securely connected to both the scanner and the computer. Try a different USB port on your computer. Test the scanner on another computer if possible.

Problem	Possible Cause	Solution
Scanner beeps but no data appears on screen.	Incorrect input focus on the computer; application not ready to receive input.	Ensure the cursor is active in the desired text field or application before scanning. Try scanning into a simple text editor like Notepad to confirm basic functionality.
Scanner does not read barcodes.	Barcode damaged, poor print quality, incorrect distance/angle, or dirty scanning window.	Ensure the barcode is clear and undamaged. Adjust the distance and angle of the scanner relative to the barcode. Clean the scanning window as described in the Maintenance section. Verify the barcode symbology is supported by the scanner.
Scanner reads some barcodes but not others.	Specific barcode symbology is disabled or not supported.	Refer to the "Supported Symbologies" in the Features section. If a specific symbology is not listed, the scanner may not support it. Some advanced settings might be programmable via specific configuration barcodes (refer to a full programming manual if available).

## 9. WARRANTY AND SUPPORT






This product is covered by a standard manufacturer's warranty. For specific warranty terms, duration, and conditions, please refer to the warranty card included with your purchase or contact your original point of sale or the manufacturer directly.

For technical support, troubleshooting assistance beyond this manual, or service inquiries, please contact the vendor or manufacturer using the contact information provided at the time of purchase.

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### Related Documents - IDATA LS-6030U

<div><div>iData</div><div><div>iDataT1Pro</div><div>User Manual</div><div>Version: 14.00.014</div></div></div>	<div><a href="#">iData T1 Pro User Manual: Setup, Operation, and Troubleshooting Guide</a></div> <div>Explore the iData T1 Pro mobile computer with this comprehensive user manual. Learn about device features, connectivity options, software management, scanning capabilities, and essential troubleshooting tips from Wuxi iData Technology Company Ltd.</div>
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	<p><a href="#">Digital Scanner Quick Start Guide - iData J16-BT</a></p> <p>Quick start guide for the iData J16-BT digital scanner, covering setup, features, troubleshooting, and compliance information.</p>
	<p><a href="#">Wuxi iData Technology Co., Ltd. TZ17 &amp; J17-BT Digital Scanner Quick Start Guide</a></p> <p>A quick start guide for Wuxi iData Technology Co., Ltd. digital scanners, models TZ17 and J17-BT, covering setup, status indicators, function settings, communication modes, and regulatory compliance.</p>
	<p><a href="#">BOSS LASER LS Series Quick Start Guide: Setup and Operation</a></p> <p>Get started quickly with your BOSS LASER LS Series machine. This guide provides essential setup, connection, and initial operation instructions for your laser cutter, including a 'Hello World' walkthrough.</p>
	<p><a href="#">iData J16-BT Digital Scanner Quick Start Guide</a></p> <p>Quick start guide for the iData J16-BT Digital Scanner and Charging Stand, covering features, setup, troubleshooting, and compliance information. Learn how to connect, configure, and use your device.</p>
	<p><a href="#">iData T1 UHF User Manual: Operation, Connectivity, and Troubleshooting Guide</a></p> <p>Comprehensive user manual for the iData T1 UHF rugged mobile computer. Covers setup, device operation, network configurations (Wi-Fi, Bluetooth, GPRS), scanning features, software management, and detailed troubleshooting steps from Wuxi iData Technology Co., Ltd.</p>