

**XB-6258**

# XB-6258 Syble 2D Barcode Scanner User Manual

Model: XB-6258

## 1. INTRODUCTION

This manual provides comprehensive instructions for the setup, operation, maintenance, and troubleshooting of the XB-6258 Syble 2D Barcode Scanner. This device is designed for efficient and accurate scanning of 1D and 2D barcodes in various environments. Please read this manual thoroughly before using the scanner to ensure optimal performance and longevity.



Figure 1: Front view of the XB-6258 Syble 2D Barcode Scanner, showing the scanning window and trigger button.

## 2. PACKAGE CONTENTS

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Upon opening the package, verify that all components are present and undamaged. The standard package for the XB-6258 Barcode Scanner includes:

- XB-6258 2D Barcode Scanner unit
- USB Cable (for connectivity and power)
- Instruction Manual (this document)



Figure 2: Contents of the XB-6258 package, including the scanner, USB cable, and documentation, alongside the product box.

### 3. SETUP

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The XB-6258 barcode scanner is designed for easy setup with desktop computers.

#### 3.1 Connecting the Scanner

1. Ensure your computer is powered on.
2. Locate an available USB port on your desktop computer.
3. Connect the USB cable from the scanner to the USB port on your computer. The scanner is a plug-and-play device and typically does not require additional driver installation for basic functionality.
4. The scanner will emit a short beep and its indicator light will illuminate, signifying successful connection and power-on.

#### 3.2 Initial Configuration (Optional)

The scanner operates in USB-HID mode by default, simulating keyboard input. For advanced configurations such as RS232 interface or specific scanning modes (manual, successive, automatic), refer to the programming guide (if provided separately) or contact technical support.

### 4. OPERATING THE SCANNER

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The XB-6258 scanner supports various scanning methods and is optimized for 2D barcode reading.

#### 4.1 Basic Scanning Procedure

1. Open an application on your computer where you wish the scanned data to appear (e.g., a text editor, spreadsheet, or POS software).
2. Point the scanning window of the XB-6258 scanner towards the barcode you wish to read. Ensure the barcode is within the scanner's depth of field (60-250mm).
3. Press and hold the trigger button (blue button on the handle) to activate the scanner's aimer and illumination.
4. Position the aimer over the center of the barcode. The scanner will emit a successful scan beep and the indicator light will flash upon a successful read. The barcode data will then be transmitted to your computer.
5. Release the trigger button.



Figure 3: Side view of the XB-6258 Syble 2D Barcode Scanner, highlighting the ergonomic design and the Syble branding.

## 4.2 Scanning Performance Parameters

- **Light Sources:** 617nm LED Aimer, White LED Scan Image
- **Scan Image:** COMS
- **Scan Method:** Manually/Successive/Automatic Scanning (Optional)
- **Scan Angle:** Yaw 60°, Rotation 360°, Pitch 65°
- **Precision:**  $\geq 5$ mil
- **Depth of Field:** 60-250mm
- **Error Rate:** Less than 1/5 million
- **Indicator:** LED, Buzzer

## 5. MAINTENANCE

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Proper maintenance ensures the longevity and optimal performance of your XB-6258 barcode scanner.

### 5.1 Cleaning

- Regularly clean the scanning window with a soft, lint-free cloth.
- For stubborn smudges, slightly dampen the cloth with water or a mild, non-abrasive cleaner. Do not spray cleaner directly onto the scanner.
- Avoid using harsh chemicals, solvents, or abrasive materials, as these can damage the scanner's casing or scanning window.

## 5.2 Storage

When not in use, store the scanner in a clean, dry environment within the specified storage temperature range of -10°C.

## 5.3 Drop/Shock Resistance

The scanner is designed to withstand multiple 3m drops. However, repeated severe impacts should be avoided to prevent potential internal damage.

## 6. TROUBLESHOOTING

This section addresses common issues you might encounter with your XB-6258 barcode scanner.

Problem	Possible Cause	Solution
Scanner does not power on.	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.
Scanner powers on but does not scan.	Barcode damaged, incorrect symbology enabled, or scanner not in correct mode.	Ensure the barcode is clear and undamaged. Verify the scanner is in the correct operating mode (e.g., USB-HID). If specific barcode types are not scanning, check the programming guide for symbology enablement.
Scanned data appears incorrectly.	Keyboard layout mismatch or data formatting issue.	Ensure your computer's keyboard layout matches the scanner's output settings. Refer to the programming guide for data formatting options (e.g., adding prefixes/suffixes).
Scanner beeps but no data appears.	No active input field on the computer or application issue.	Ensure a text input field is active and focused in your application. Test with a simple text editor (e.g., Notepad) to rule out application-specific issues.

## 7. SPECIFICATIONS

Detailed technical specifications for the XB-6258 2D Barcode Scanner.

Parameter	Value
Model Number	XB-6258
Light Sources	617nm LED Aimer, White LED Scan Image
Scan Image	COMS
Scan Method	Manually/Successive/Automatical Scanning (Optional)
Scan Angle	Yaw 60°, Rotation 360°, Pitch 65°
Precision	≥5mil
Depth of Field	60-250mm
Error Rate	Less than 1/5 million
Indicator	LED, Buzzer

Parameter	Value
Interface	USB-HID, RS232
Operating Temperature	-10°C~55°C
Storage Temperature	-10°C
Relative Humidity	5%~95% (Non-condensing)
Drop/Shock Resistance	Withstands multiple times 3m drops
Voltage	DC5V±5%
Current	135mA (Operating)
Compatible Devices	Desktop, Laptop
Power Source	Corded Electric
Connectivity Technology	USB Cable

## 8. WARRANTY AND SUPPORT

### 8.1 Warranty Information

Specific warranty terms and conditions for the XB-6258 barcode scanner are typically provided at the point of purchase or within separate documentation. Please retain your proof of purchase for warranty claims.

### 8.2 Technical Support

For technical assistance, troubleshooting beyond this manual, or inquiries regarding advanced configurations, please contact the vendor or manufacturer's customer support. Refer to the product packaging or purchase documentation for contact details.

