

BWHS25L

Generic BWHS25L Tri-Mode Barcode Scanner User Manual

Model: BWHS25L

1. INTRODUCTION

The Generic BWHS25L is a versatile tri-mode barcode scanner designed for efficient data capture. It supports 1D, 2D, and QR codes, offering flexible connectivity options including 2.4G wireless, wired USB, and Bluetooth. Equipped with a 32-bit CPU, it delivers a high scanning speed of up to 300 scans per second, ensuring fast and accurate decoding. This scanner features two operational modes: instant upload and offline storage, capable of storing up to 100,000 barcodes. Its ergonomic design includes a foldable stand for convenient hands-free operation, making it suitable for various environments such as retail, supermarkets, libraries, warehouses, and inventory management.

2. SETUP

2.1 Package Contents

- BWHS25L Barcode Scanner
- USB Cable
- 2.4G USB Dongle
- Foldable Stand (Standard model)

2.2 Charging the Scanner

Before initial use, ensure the scanner is fully charged. Connect the scanner to a USB power source (e.g., computer USB port, USB wall adapter) using the provided USB cable. The indicator light on the scanner will illuminate to show charging status and turn off or change color when fully charged.

2.3 Connection Modes

The BWHS25L scanner supports three connection modes:

2.4G Wireless Mode

This mode offers a stable wireless connection with a range of up to 80 meters in open areas.

1. Insert the **2.4G USB dongle** into an available USB port on your computer or host device.
2. Power on the scanner. It will automatically pair with the dongle.
3. The scanner is plug-and-play; no driver installation is typically required.



Image: Side view of the BWHS25L scanner with the 2.4G USB dongle, illustrating the wireless connection component.

Wired USB Mode

For a direct and reliable connection, use the wired USB mode.

1. Connect the scanner directly to your computer using the provided **USB cable**.
2. The scanner will function as a wired device and charge simultaneously.
3. This mode is also plug-and-play.

Bluetooth Mode

Connect wirelessly to various devices including smartphones, tablets, and PCs.

1. Power on the scanner.
2. Activate Bluetooth on your host device (smartphone, tablet, PC).
3. Search for "BWHS25L" or a similar device name in your device's Bluetooth settings and pair.

Multiple communication modes Compatible with a variety of operating systems

2.4G + Bluetooth dual-mode wireless technology,
convenient for users and cell phones, Tablet, PC
and other terminals.

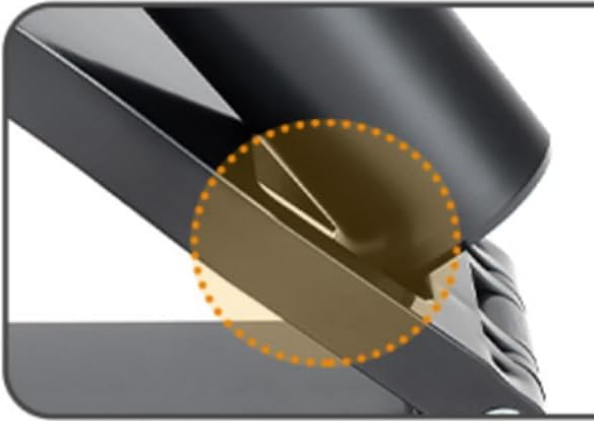


*Support multiple communication mode switching [Bluetooth (HID/BLE/SPP), 2.4G]
2.4G receiver plug and play, no need to install the driver

Image: The BWHS25L scanner shown with a PC, tablet, and smartphone, illustrating its compatibility with multiple operating systems and communication modes (2.4G and Bluetooth).

2.4 Folding Stand Assembly

The BWHS25L scanner includes a foldable stand for hands-free operation. Unfold the stand and securely place the scanner in its designated recessed area. This allows for stable positioning during continuous scanning tasks.



Recessed design:

The scanner will not shake during use.
Safer and more secure.



U-shaped narrowing design:

Adapt with the scanner gun, in the process of use. It will not shake during the use of the scanner, which is safer and more secure.



Folding stand size: 150.5*80.5*34.6mm
Overall package size: 185*111*81mm
Folding stand saves packing and transportation cost.

Image: A diagram detailing the recessed design of the scanner and the dimensions of the folding stand, highlighting its secure fit and compact storage.

3. OPERATING INSTRUCTIONS

3.1 Basic Scanning

To scan a barcode:

1. Aim the scanner's light beam at the center of the barcode.
2. Press the trigger button.
3. A successful scan is indicated by an audible beep and/or a visual indicator light (e.g., green light).





Image: Front view of the BWHS25L scanner, showing the scanning window and a green indicator light, typically signifying a

successful scan.

3.2 Operational Modes

The BWHS25L scanner supports two primary operational modes:

- **Instant Upload Mode:** In this mode, all scanned barcodes are immediately transmitted to the connected host device. This is the default mode when the scanner is actively connected via wired, 2.4G, or Bluetooth.
- **Offline Storage Mode:** When the scanner is disconnected or out of range from the host device, it can store scanned barcodes internally. The scanner has a capacity to store up to 100,000 barcodes. To upload the stored data, reconnect the scanner to your device. The data will typically synchronize automatically or require scanning a specific command barcode (refer to the full product manual for specific command barcodes if needed).

3.3 Hands-Free Scanning

Utilize the included foldable stand to enable hands-free scanning. Position the scanner on the stand, and it can be configured for continuous or automatic scanning, allowing you to present items to the scanner without needing to hold the device.

2D Barcode Scanner

Plug&Play | 1D/2D | Intelligent Indicator Light



Image: The BWHS25L scanner positioned on its dedicated folding stand, demonstrating its hands-free operation capability.

4. MAINTENANCE

4.1 Cleaning

- Use a soft, dry cloth to clean the scanner's exterior.
- For the scanning window, use a lens cleaning cloth to avoid scratches.
- Do not use abrasive cleaners, solvents, or harsh chemicals, as these can damage the device.

4.2 Battery Care

- To prolong battery life, avoid fully discharging the battery frequently.
- Charge the scanner regularly, even if not in constant use.
- If storing the scanner for an extended period, charge the battery to approximately 50% before storage.

4.3 Storage

- Store the scanner in a cool, dry place away from direct sunlight and extreme temperatures.
- Keep the scanner away from strong magnetic fields.

5. TROUBLESHOOTING

5.1 Scanner Not Responding

- Ensure the battery is sufficiently charged.
- For wired mode, check the USB cable connection to both the scanner and the host device.
- For 2.4G wireless mode, ensure the USB dongle is properly inserted and the scanner is paired.
- For Bluetooth mode, verify that Bluetooth is enabled on the host device and the scanner is successfully paired.

5.2 Unable to Scan Barcodes

- Ensure the barcode is clean, undamaged, and clearly printed.
- Adjust the distance and angle between the scanner and the barcode.
- Verify that the scanner is in the correct operational mode and not in a paused or sleep state.
- Confirm that the barcode type (1D, 2D, QR) is supported by the scanner.

5.3 Data Transmission Issues

- For wireless modes, check the distance to the receiver/host device. The 2.4G wireless range is up to 80 meters in an open area.
- Ensure there are no strong interference sources (e.g., other 2.4GHz devices) nearby.
- If in offline storage mode, remember to upload the stored data by reconnecting the scanner.

2.4G high-speed wireless technology rejects lagging

2.4G open area, back-to-back 80 meters stable transmission; scanner gun and receiver Plug and play, convenient and fast!

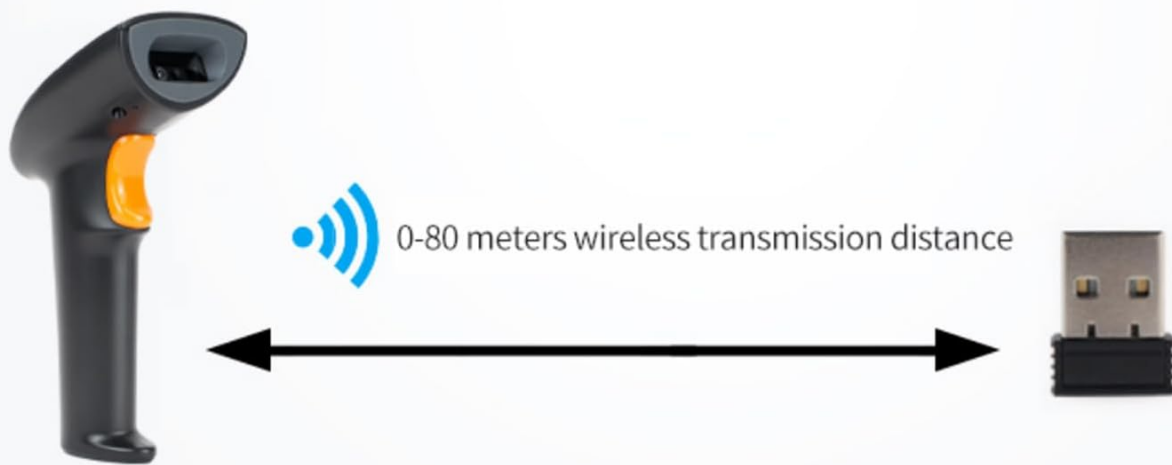


Image: A visual representation of the 2.4G wireless technology, showing the scanner and its USB receiver with an indicated transmission distance of 0-80 meters.

6. SPECIFICATIONS

Model	BWHS25L
Material	ABS
Color	Black
Connectivity	Wired (USB), 2.4G Wireless, Bluetooth (Tri-Mode)
Image Sensor	CMOS 640x480
Light Source	LED

Focus	Red LED
Scanning Speed	Up to 300 scans/second
Decoding Capability	1D, 2D, QR barcodes (specific types listed in full product documentation)
Reading Precision	≥5 mil
Symbol Contrast	≥20%
Barcode Sensitivity	Tilt ±60°, Rotation ±60°, Swivel 360°
Operational Modes	Instant Upload, Offline Storage (up to 100,000 barcodes)
Interface	USB
Charging Voltage	5 VDC ±5%
Keyboard Support	US and international keyboards
Wireless Range (2.4G)	0-80 meters (open area)
Country of Origin	China

7. WARRANTY

This product is covered by a **1-year warranty** against manufacturing defects. Please retain your proof of purchase for any warranty claims. The warranty does not cover damage caused by misuse, accidents, unauthorized modifications, or normal wear and tear.

8. SUPPORT

For technical assistance, troubleshooting, or customer support, please refer to the contact information provided by your retailer or visit the manufacturer's official website. Ensure you have your product model number (BWHS25L) and proof of purchase ready when contacting support.