

NETUM DS2800

NETUM DS2800 Wireless Wi-Fi 2D Barcode Scanner

USER MANUAL

1. Introduction

The NETUM DS2800 is a versatile wireless 1D/2D barcode scanner designed for various applications, including inventory management and Point-of-Sale (POS) systems. It offers flexible connectivity options via Wi-Fi and Bluetooth, ensuring seamless integration with a wide range of devices and network environments. This manual provides detailed instructions for setting up, operating, maintaining, and troubleshooting your DS2800 scanner.



Figure 1.1: NETUM DS2800 Scanner with its charging cradle.

Key Features:

- **Wireless Network Mode:** Connects via Wi-Fi (TCP, UDP, MQTT/HTTP protocols) for cloud server data transmission.
- **Bluetooth Mode:** Supports HID, BLE, and SPP modes for direct connection to Android, iOS, Windows, and Mac OS devices.
- **Strong Decoding Ability:** Scans major 1D and 2D barcodes including QR Code, Data Matrix, PDF417, and more, from both printed media and screens.
- **User-Friendly Charging Cradle:** Provides continuous power and allows for automatic data storage and transmission when out of range.
- **Durable Design:** Built for all-day use with a long-life battery (up to 40 hours) and rugged construction for protection against dust and moisture.
- **Multiple Trigger Modes:** Key Trigger, Continuous Scan, and Auto-induction for flexible operation.
- **Two Upload Modes:** Instant Upload and Storage Mode for efficient data handling.
- **Programmable Configuration:** Customize prefixes/suffixes, delete characters, add keyboard keys, enable/disable barcode types, and adjust beep settings.

2. Setup

2.1 Unboxing and Initial Inspection

Upon opening the package, verify that all components are present and in good condition. The package should contain the NETUM DS2800 barcode scanner, a charging cradle, and a USB cable.



Figure 2.1: Product packaging showing model DS2800 and color White.

2.2 Charging the Scanner

Before first use, fully charge the scanner. Place the scanner into the charging cradle. Connect the charging cradle to a power source using the provided USB cable. The scanner's indicator light will show charging status.

MULTIFUNCTIONAL BASE



- Charging port



Figure 2.2: The multifunctional base serves as a charging port and connection hub.

2.3 Connection Modes

The DS2800 supports two primary connection modes: Wi-Fi and Bluetooth.

2.3.1 Wi-Fi Wireless Connection Mode

This mode allows the scanner to connect to a network via TCP or UDP protocols, supporting MQTT/HTTP for cloud server data transmission. This is ideal for integrated systems requiring network communication.

2-IN-1 BARCODE SCANNER



Figure 2.3: Wi-Fi Wireless Connection Mode setup.

2.3.2 Bluetooth Connection Mode

The scanner can connect directly to mobile phones, tablets, and PCs via Bluetooth (HID, SPP, BLE modes). This provides a convenient wireless solution for direct device communication.

2-IN-1 BARCODE SCANNER



Figure 2.4: Bluetooth Connection Mode setup.

Refer to the detailed configuration barcodes in the full user manual (PDF) for specific setup steps for each connection mode.

3. Operating the Scanner

3.1 Scanning Barcodes

The DS2800 is capable of scanning both 1D and 2D barcodes, including QR codes, Data Matrix, and PDF417. It can read barcodes from various surfaces, including printed labels and digital screens.



Figure 3.1: The scanner reads various barcode types from different sources.

3.2 Trigger Modes

The scanner offers three trigger modes to suit different operational needs:

- **Key Trigger Mode:** The scanning light activates only when the trigger button is pressed.
- **Continuous Scan Mode:** The scanning light remains on constantly when the scanner is powered, allowing for hands-free scanning without pressing the button.
- **Auto-induction Mode:** The scanning light is off until a barcode is detected in front of the scanner. The light then automatically turns on to read the barcode.

3.3 Upload Modes

Data can be uploaded in two ways:

- **Instant Upload Mode:** Barcodes are read and immediately uploaded to the open file or application on your connected device.

- **Storage Mode:** All scanned barcodes are stored in the scanner's built-in memory. Data can then be uploaded in a batch to your device at a later time. This is useful when operating out of wireless range.

3.4 Programmable Configuration

The DS2800 can be configured to meet specific requirements:

- Add custom prefixes or suffixes to scanned data.
- Delete specific characters from scanned data.
- Add keyboard keys or combinations (e.g., TAB, CR&LF, Home) as terminators.
- Enable or disable specific barcode types.
- Turn the beep sound on or off, or change the capital/lower case output.

Detailed instructions and configuration barcodes for these settings are available in the comprehensive user manual (PDF).

4. Maintenance

4.1 Battery Care

The DS2800 is equipped with a long-life battery, providing up to 40 hours of operation on a single charge. To maximize battery lifespan, avoid extreme temperatures and fully charge the device regularly. Always use the provided charging cradle and USB cable.

4.2 Cleaning

To clean the scanner, gently wipe the exterior with a soft, dry, lint-free cloth. For the scanning window, use a lens cleaning cloth or a soft cloth lightly dampened with a mild, non-abrasive cleaner. Do not use harsh chemicals or abrasive materials, as they may damage the device.

4.3 Durability

The DS2800 features a rugged design for protection against dust and moisture, ensuring continuous productivity. The built-in trigger has a lifecycle of 10 million times, indicating high reliability for demanding environments.

5. Troubleshooting

This section addresses common issues you might encounter with your NETUM DS2800 scanner.

5.1 Scanner Not Reading Barcodes

- Ensure the scanner is fully charged.
- Verify that the scanner is in the correct trigger mode (Key Trigger, Continuous Scan, or Auto-induction).
- Check if the barcode type is enabled in the scanner's configuration.
- Ensure the barcode is not damaged or poorly printed.
- Clean the scanning window if it is dirty or smudged.

5.2 Connection Issues (Wi-Fi/Bluetooth)

- **For Wi-Fi:** Ensure the scanner is configured with the correct network credentials (SSID, password). Verify

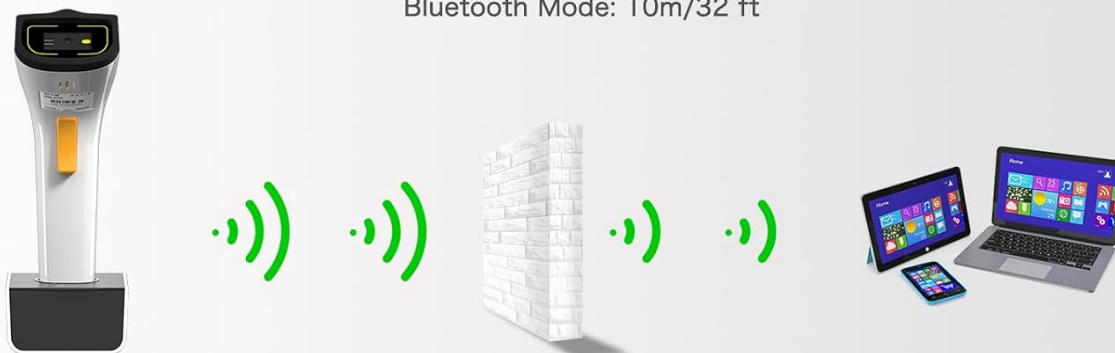
network connectivity and firewall settings.

- **For Bluetooth:** Ensure Bluetooth is enabled on your host device and the scanner is in pairing mode. Check that the scanner is within the effective Bluetooth range (approx. 10m/33ft with obstacles, 20m/65ft in barrier-free environments).
- Confirm that the host device's operating system (iOS, Android, Windows, Mac OS, Linux) is compatible.

LONG TRANSMISSION RANGE

Under obstacles environment

Bluetooth Mode: 10m/32 ft



In barrier free environment

Bluetooth Mode: 20 m/65 ft

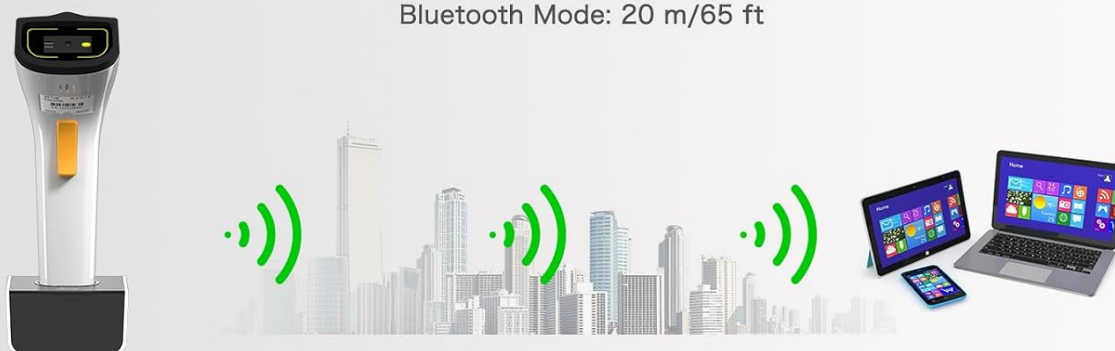


Figure 5.1: Transmission range considerations for Bluetooth connectivity.

5.3 Beep Sound is Too Loud/Quiet

The scanner's beep volume can be adjusted or turned off through programmable configuration. Refer to the full user manual (PDF) for the specific configuration barcodes to modify this setting.

5.4 Data Not Uploading

- If using Instant Upload Mode, ensure the scanner is properly connected to your device and an application is open to receive data.
- If using Storage Mode, ensure you have initiated the batch upload process from the scanner.
- Check for any custom prefixes/suffixes or terminators that might be affecting data interpretation on the host device.

6. Specifications

Feature	Description
Model Number	DS2800
Dimensions	8.78 x 4.76 x 3.9 inches
Item Weight	12.3 ounces
Batteries	1 Lithium Metal battery (included)
Power Source	Battery Powered
Connectivity Technology	Bluetooth (V4.2), Wi-Fi (802.11 b/g/n 1x1, 2.4GHz)
Bluetooth Frequency	2.412 - 2.484 GHz
Wi-Fi Frequency	2.412 ~ 2.484GHz
Wi-Fi Transmit Power (2.4GHz)	+20.5 dBm (11 b), 18 dBm (11 n)
Supported 1D Symbologies	UPC/EAN, Code 39, Code 128, Code 93, Codabar, Interleaved 2 of 5, GS1 DataBar, etc.
Supported 2D Symbologies	QR Code, Micro QR Code, DataMatrix, MaxiCode, Aztec, PDF417, MicroPDF417, PostNet, etc.
Compatible Devices	Smartphone, Tablet, Desktop, Laptop
System Requirements	Mobile: iOS, Android; PC: Windows 10/8.1/8/7/Vista/XP/CE, Mac OS X, Linux
Manufacturer	NETUM
Country of Origin	China

7. Warranty and Support

NETUM products are manufactured to high-quality standards. For any technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact NETUM customer support. Refer to the product packaging or the official NETUM website for contact information.



Figure 7.1: Manufacturer and EU Representative details on packaging.

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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.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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