NYEAR NT500-H26

NYEAR NT500-H26 Wireless 1D Barcode Scanner User Manual

Model: NT500-H26

1. Introduction

Thank you for choosing the NYEAR NT500-H26 Wireless 1D Barcode Scanner. This device offers both wired and wireless connectivity options, designed for efficient scanning of 1D barcodes on various surfaces, including paper and electronic displays. This manual provides detailed instructions for setup, operation, maintenance, and troubleshooting to ensure optimal performance.

2. Product Overview

The NYEAR NT500-H26 is a versatile 1D barcode scanner featuring robust construction and multiple connectivity modes. It is built for durability and long-term use in various environments.



Figure 2.1: Scanner Components. This image highlights the key components of the NT500-H26 scanner, including the scanning window, LED indicator, buzzer, trigger button, and USB interface.

Key Features:

- **Dual Connectivity:** Supports both wired (USB) and wireless (Bluetooth 4.0) modes.
- **1D Barcode Scanning:** Capable of scanning various 1D barcodes from paper and electronic screens.
- **Durable Design:** Features shake-proof, splash-proof, dust-proof, anti-shock, and EMI shielding for enhanced longevity.
- **Long Battery Life:** Equipped with a 2600mAh battery for extended operation.
- **Offline Storage:** Built-in 256KB memory for storing up to 60,000 barcode entries when offline.
- **Wide Compatibility:** Compatible with Windows, Android, iOS, and Mac OS.

3. Setup

3.1 Charging the Scanner

Before initial use, fully charge the scanner. The device is equipped with a 2600mAh battery, providing extended working time.

1. Connect the provided USB cable to the scanner's charging port.
2. Connect the other end of the USB cable to a power source (e.g., computer USB port, USB wall adapter).
3. The LED indicator will show charging status. Refer to the LED indicator section for details.



Figure 3.1: Charging the Scanner. The image shows the scanner's large battery capacity and the 1A high current quick charge port.

3.2 Connecting the Scanner

The NT500-H26 supports both wired USB and wireless Bluetooth connections.

3.2.1 Wired USB Connection

1. Connect the USB cable directly from the scanner to your computer's USB port.
2. The scanner will be recognized as a keyboard device, and no additional drivers are typically required.
3. The scanner is ready for use once connected.

3.2.2 Wireless Bluetooth Connection

The scanner utilizes Bluetooth 4.0 for stable and reliable wireless transmission.

1. Ensure the scanner is powered on.

2. For computers without built-in Bluetooth, insert the provided USB Bluetooth receiver into an available USB port.
3. On your host device (computer, smartphone, tablet), enable Bluetooth and search for available devices.
4. Select "NYEAR Barcode Scanner" or a similar name from the list of discovered devices to pair.
5. Once paired, the scanner is ready for wireless operation. No driver installation is needed.



Figure 3.2: Bluetooth 4.0 Advantages. This image illustrates the benefits of Bluetooth 4.0, including lower power consumption and a wider, more stable transmission range compared to Bluetooth 2.0.



Figure 3.3: Wireless Connection Setup. The scanner connects wirelessly via Bluetooth 4.0, supporting Windows, Android, iOS, and Mac OS without requiring additional drivers.

3.3 USB OTG and NYEARASSIS Application

The scanner supports USB On-The-Go (OTG) functionality, allowing direct connection to Android phones. Additionally, the NYEARASSIS application provides comprehensive instructions and configuration barcodes for the scanner. This app can be used to view settings, instructions, and access service information.

4. Operating Instructions

4.1 Scanning Barcodes

The NT500-H26 is designed to scan various 1D barcodes efficiently.

1. Point the scanning window of the scanner towards the barcode.
2. Press and hold the trigger button. A red scanning line will appear.
3. Position the scanner so the red line crosses the entire barcode.

4. Upon successful scan, the scanner will emit a beep (if enabled) and the LED indicator will flash. The scanned data will be transmitted to your connected device.



Figure 4.1: Barcode Scanning in Progress. This image demonstrates the scanner actively reading a 1D barcode, showing the red scanning line.

Supported Barcode Types:

The scanner supports a wide range of 1D barcode symbologies, including but not limited to:

- Codabar
- CODE11
- CODE 39
- CODE 93
- UPC/EAN (e.g., EAN 13, EAN 8, UPC-A, UPC-E)
- CODE 128/EAN 128
- Interleaved 2 of 5
- Matrix 2 of 5
- MSI
- Standard 2 of 5

The scanner is capable of identifying reflective, damaged, or twisted barcodes due to its high-speed precision preamplifier.

4.2 Offline Storage Mode

The NT500-H26 features a 256KB built-in memory, allowing it to store up to 60,000 1D barcode entries when not connected to a host device. To retrieve stored data, connect the scanner to your device, and the stored barcodes will be transmitted.

5. Maintenance

To ensure the longevity and optimal performance of your NYEAR NT500-H26 barcode scanner, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the scanner's exterior. For the scanning window, use a lint-free cloth lightly dampened with a mild, non-abrasive cleaner. Avoid harsh chemicals or abrasive materials.
- **Storage:** Store the scanner in a cool, dry place away from direct sunlight and extreme temperatures.
- **Durability:** The scanner is designed to be shake-proof, splash-proof, dust-proof, and anti-shock. While robust, avoid intentional drops or exposure to excessive moisture.
- **Battery Care:** For long-term storage, ensure the battery is partially charged (around 50%) to preserve its lifespan. Avoid completely draining the battery frequently.

6. Troubleshooting

If you encounter issues with your NT500-H26 scanner, refer to the following common problems and solutions:

6.1 Scanner Not Reading Barcodes

- **Check Barcode Type:** Ensure the barcode is a supported 1D type. This scanner does not read 2D barcodes (e.g., QR codes, PDF417).
- **Barcode Condition:** Verify the barcode is not severely damaged, smudged, or poorly printed. Although the scanner has advanced reading capabilities, extreme damage can prevent scanning.
- **Distance and Angle:** Adjust the distance and angle between the scanner and the barcode. Try scanning from different positions.
- **Lighting:** Ensure adequate lighting. Avoid direct glare on the barcode.
- **Scanning Window:** Clean the scanning window for any obstructions or dirt.

6.2 No Connection (Bluetooth or USB)

- **Power:** Ensure the scanner is powered on and has sufficient battery charge.
- **USB Connection:** For wired mode, ensure the USB cable is securely connected to both the scanner and the host device. Try a different USB port.
- **Bluetooth Connection:**
    - Verify Bluetooth is enabled on your host device.
    - Ensure the scanner is in pairing mode (if applicable, refer to specific pairing instructions in the NYEARASSIS app).
    - Remove and re-pair the scanner from your device's Bluetooth settings.
    - If using the USB Bluetooth receiver, ensure it is properly inserted and recognized by the computer.
    - Check for interference from other wireless devices.

6.3 Scanned Data Not Appearing

- **Active Application:** Ensure you have an active text input field (e.g., notepad, word processor, spreadsheet) open on your connected device where the scanned data can be entered.
- **Connection Status:** Confirm the scanner is successfully connected (wired or wireless).
- **Offline Mode:** If the scanner is in offline storage mode, data will not be transmitted until explicitly uploaded.

For further assistance, consult the NYEARASSIS application or contact customer support.

7. Specifications

Feature	Detail
Model Name	NT500-H26
Brand	NYEAR
Connectivity Technology	Bluetooth 4.0, USB Cable (Wired/Wireless)
Compatible Devices	Smartphone, Tablet, Windows PCs, Mac OS
Power Source	Battery
Battery Type	1 Lithium Ion (2600mAh)
Offline Storage	256KB (supports up to 60,000 1D barcode entries)
Barcode Compatibility	1D (Codabar, CODE11, CODE 39, CODE 93, UPC/EAN, CODE 128/EAN 128, Interleaved 2 of 5, Matrix 2 of 5, MSI, Standard 2 of 5)
Durability Features	Shake-proof, splash-proof, dust-proof, anti-shock, EMI shielding
GTIN	711639499775
ASIN	B079N8XD1Q
Manufacturer Model Number	8541732565
Manufacturer Part Number	3

8. Warranty and Support

For product support, troubleshooting, and service information, please refer to the NYEARASSIS application. The application contains detailed guides and configuration options for your scanner. For warranty inquiries, please contact your retailer or the manufacturer directly.

9. Common Applications

The NYEAR NT500-H26 barcode scanner is suitable for a variety of industry applications, including:



Figure 9.1: Industry Applications. This image illustrates various sectors where the barcode scanner can be effectively utilized, such as Government, Libraries, Manufacturing, Retail, Logistics, Inventory, Shipping & Receiving, Education, Hospitality, Healthcare, and Pharmacy & Medical.

- Government
- Libraries
- Manufacturing
- Retail
- Logistics
- Inventory Management
- Shipping & Receiving
- Education
- Hospitality Industry
- Healthcare
- Pharmacy & Medical