

NetumScan NS-NT91

NetumScan NS-NT91 2D Fixed Barcode Scanner User Manual

Model: NS-NT91 | Brand: NetumScan

1. INTRODUCTION

The NetumScan NS-NT91 is an industrial-grade 2D fixed barcode scanner designed for efficient and reliable barcode reading in various environments. This device features automatic induction detection and USB connectivity, making it suitable for integration into self-service terminals, logistics sorting lines, factory assembly lines, and other automated systems. This manual provides detailed instructions for setup, operation, and maintenance to ensure optimal performance.

2. PRODUCT OVERVIEW

The NS-NT91 scanner is built with a high-strength ABS casing and an IP54 protection rating, allowing it to operate reliably in temperatures ranging from -20 °C to 50 °C. Its robust design makes it resistant to dust and vibrations, ideal for demanding industrial settings.

Key Features:

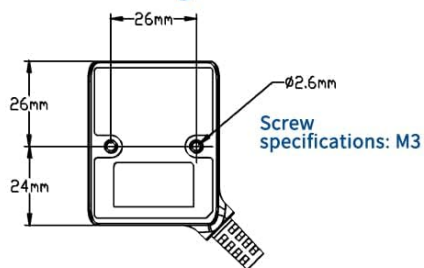
- **4-in-1 Scanning Modes:** Automatic detection, continuous scanning, external trigger, and command trigger modes.
- **Plug and Play:** USB interface for easy setup without driver installation.
- **Wide Compatibility:** Supports Windows, Linux, MacOS, and Android operating systems.
- **Excellent Decoding Capability:** Equipped with a 640 × 480 CMOS sensor and wide-angle lens for rapid identification of various 1D and 2D barcodes.
- **Versatile Applications:** Suitable for express logistics cabinets, self-service book terminals, ATMs, lottery terminals, and production lines.

Mini Size, Powerful Performance

Easily realize industrial automation



Hole diagram



Scan window size

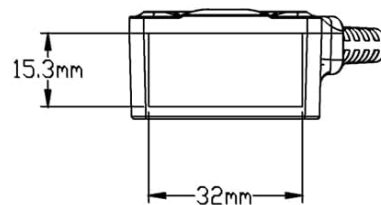


Figure 2.1: NetumScan NS-NT91 scanner showing its compact dimensions (22.8mm height, 40mm width, 50mm depth) and scan window size (15.3mm x 32mm).

3. SETUP

The NetumScan NS-NT91 scanner is designed for simple and quick installation.

3.1 Connecting the Scanner

1. Locate the USB cable attached to the scanner.
2. Plug the USB connector into an available USB port on your computer or host device.
3. The scanner is Plug and Play, meaning no additional drivers are required for most operating systems (Windows, Linux, MacOS, Android). The system will automatically detect and configure the device.

Plug & Play No Driver

Just connect your computer with a USB cable



Figure 3.1: The NS-NT91 scanner connected to a laptop via its USB cable, demonstrating the plug-and-play setup.

3.2 External Trigger Switch (Optional)

For applications requiring external control, the scanner includes an external trigger switch cable. Connect this cable to your automation equipment as needed to activate the scanner remotely.

4. OPERATING INSTRUCTIONS

The NS-NT91 offers multiple scanning modes to adapt to various operational needs.

4.1 Scanning Modes

The scanner supports four primary modes:

- **Automatic Detection Mode:** The scanner automatically detects a barcode placed within its scanning field and reads it.
- **Continuous Scanning Mode:** The scanner continuously emits a scanning beam, reading any barcode that passes through its field.
- **External Trigger Mode:** Scanning is initiated by an external signal connected via the trigger switch cable.

- **Command Trigger Mode:** Scanning is initiated by a software command sent from the host device.

Four Scanning Modes



Figure 4.1: Visual representation of the four scanning modes: External trigger, Command trigger, Continuous scanning, and Auto-sense scanning.

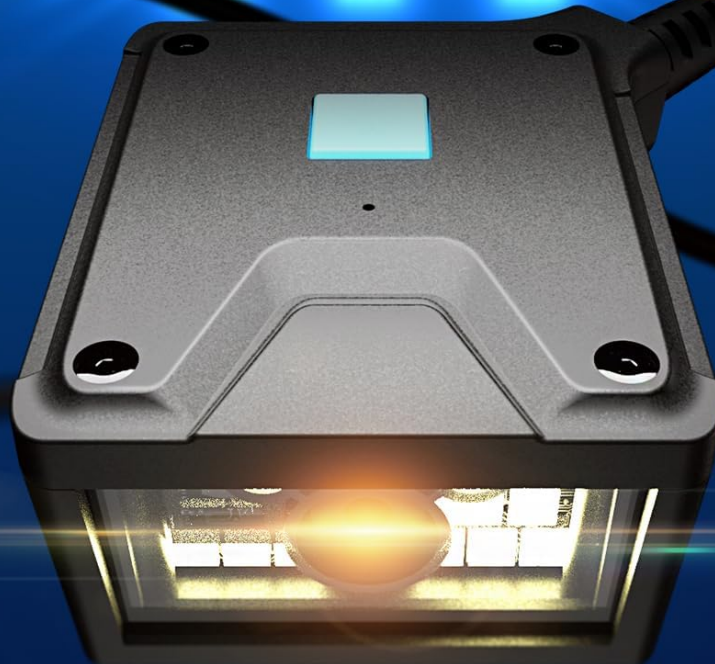
4.2 Supported Barcode Types

The NS-NT91 can read a wide array of 1D and 2D barcodes, including those on damaged surfaces, bright surfaces, high-density codes, inclined codes, electronic screens, and DPM codes.

- **1D Barcodes:** EAN, UPC, Code 39, Code 93, Code 128, UCC/EAN 128, GS1 Databar, GS1 Composite Code, Code 11, Industrial 2 of 5, Codabar, Interleaved 2 of 5, ITF-6, ITF-14, ISBN, ISSN, MSI-Plessey, Standard 25, Plessey, Matrix 2 of 5.
- **2D Barcodes:** QR Code, Data Matrix, PDF417, Aztec, Maxicode, Hanxin.

Stronger Decoding Capability

1D/2D barcode scanner



Broken



Bright surface



High density



Inclined



Electronic screen barcode



DPM code

Figure 4.2: The scanner's ability to decode various barcode types, including broken, bright surface, high density, inclined, electronic screen, and DPM codes.

4.3 Scanning from Electronic Screens

The NS-NT91 is capable of reading barcodes directly from electronic screens, such as smartphones and tablets, making it versatile for modern applications.

4.4 Scanner Sound Settings

The scanner provides audible feedback upon successful scans. Refer to the Quick Start Guide or the manufacturer's website for specific instructions on adjusting or muting the scanner's sound.

Video 4.1: Demonstration of the NetumScan barcode scanner's functionality, including scanning various 1D and 2D codes from a smartphone screen and adjusting sound settings. This video is provided by NetumScan.

5. MAINTENANCE

To ensure the longevity and optimal performance of your NetumScan NS-NT91 scanner, follow these maintenance guidelines:

- **Cleaning:** Regularly clean the scanning window with a soft, lint-free cloth. For stubborn dirt, slightly dampen the cloth with water or a mild, non-abrasive cleaner. Avoid harsh chemicals that could damage the plastic.
- **Storage:** Store the scanner in a cool, dry place away from direct sunlight and extreme temperatures when not in use.
- **Handling:** Avoid dropping the scanner or subjecting it to strong impacts, despite its robust design.

6. TROUBLESHOOTING

If you encounter issues with your NS-NT91 scanner, refer to the following common troubleshooting steps:

- **Scanner Not Responding:** Ensure the USB cable is securely connected to both the scanner and the host device. Try plugging the scanner into a different USB port or a different computer to rule out port or host device issues.
- **No Barcode Read:** Verify that the barcode is clean, undamaged, and within the scanner's field of view. Adjust the distance and angle of the barcode relative to the scanner. Ensure the correct scanning mode is active for your application.
- **Incorrect Data Output:** Check the host device's input settings to ensure they are compatible with the scanner's output. Refer to the Quick Start Guide for programming barcodes to configure scanner settings if necessary.
- **Intermittent Scanning:** Ensure there are no obstructions around the scanning window. Check for any loose cable connections.

For further assistance, consult the official NetumScan user manuals available online or contact customer support.

7. SPECIFICATIONS

Feature	Detail
Model Number	NS-NT91
Dimensions	15.99 x 12 x 7 cm; 250 g
Connectivity Technology	USB Cable
Power Source	Corded Electric
Compatible Devices	Desktop PC, Laptop, Smartphone, Tablet
Protection Rating	IP54 (Industrial Grade)
Operating Temperature	-20 °C to 50 °C
Sensor	640 × 480 CMOS
Origin	China

8. WARRANTY AND SUPPORT

NetumScan products are designed for reliability and performance. For warranty information, please refer to the documentation included with your product or visit the official NetumScan website.

For additional support, user manuals, and FAQs, please visit the [NetumScan User Manuals page](#).



Figure 8.1: The NetumScan NS-NT91 scanner, its USB cable, and the included Quick Start Guide, which contains a QR code linking to online user manuals.

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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