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NETUM Q500

NETUM Android 11 Handheld Barcode Scanner Terminal Mobile Computer

MODEL: Q500 USER MANUAL

1. Product Overview

The NETUM Q500 is a robust and versatile handheld mobile computer designed for efficient data collection in various professional environments such as retail, warehousing, logistics, and asset management. Running on Android 11 with an octa-core 2.0GHz processor, it integrates barcode scanning, NFC, Wi-Fi 6, and Bluetooth 5.0 capabilities into a durable, ergonomic design.



Figure 1: NETUM Q500 Handheld Barcode Scanner Terminal Mobile Computer.

Key Features:

- **User-Friendly Android 11:** Operates like a smartphone with an intuitive interface, powered by an octa-core 2.0GHz processor.
- **Integrated Connectivity:** Features NFC, Wi-Fi 6, and Bluetooth 5.0 for seamless data transfer and communication.
- **Long-Lasting Battery:** Equipped with a 5000mAh battery for extended operational periods.
- **Durable Design:** IP67-rated for water, dust, and drop resistance (up to 1.8m/5.9ft).
- **Versatile Scanning:** Supports 1D and 2D barcode scanning with a built-in Honeywell HS7 Engine.
- **Compact Touchscreen Display:** 4-inch IPS touchscreen, operable with gloves or wet hands.

MOBILE TERMINAL



Android 11



MTK6765
2.0GHz Octa-core



4G RAM



64G ROM

Figure 2: Overview of NETUM Q500's internal specifications and Android 11 operating system.

2. Device Components

Familiarize yourself with the various components and ports of the NETUM Q500 device.

13.56MHz NFC Reader

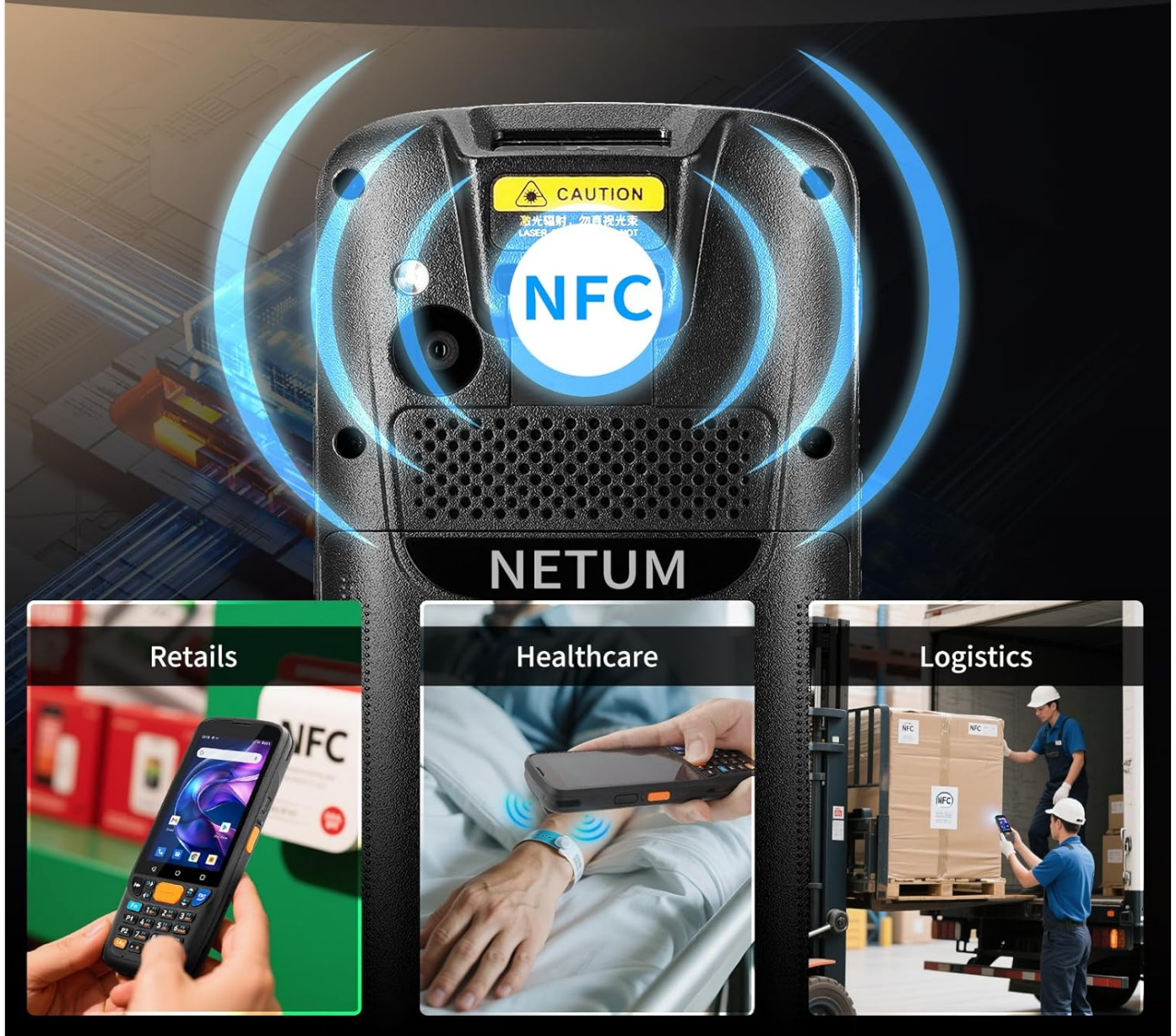


Figure 3: Detailed diagram of the NETUM Q500's external features and ports.

- **Scan Window:** Located at the top for barcode scanning.
- **Loudspeaker:** For audio output.
- **13MP Rear Camera:** For capturing images.
- **Power Key:** To power on/off or wake/sleep the device.
- **Scan Keys:** Dedicated buttons on the sides to activate the barcode scanner.
- **Volume +/-:** Adjusts audio volume.
- **Physical Keypad:** For manual data entry and navigation.
- **Dual SIM Slot:** Supports two SIM cards for cellular connectivity.
- **Magnetic Charging Port:** For convenient charging with a compatible dock (sold separately).
- **Type-C Interface:** For charging and data transfer.
- **NFC Reading Area:** Located at the front end for NFC scanning.

3. Setup Guide

3.1. Initial Charging

Before first use, fully charge the device. Connect the provided USB-C cable to the device and a power adapter. The charging indicator will show the charging status. A full charge typically takes less than 4 hours.



Figure 4: Battery specifications and performance of the NETUM Q500.

3.2. SIM Card and Storage Card Installation

Locate the dual SIM slot as shown in Figure 3. Carefully open the cover and insert your SIM cards (and an optional microSD card for expanded storage) into the designated slots. Ensure they are correctly seated before closing the cover securely.

3.3. Powering On/Off

- **To Power On:** Press and hold the Power Key (refer to Figure 3) until the device vibrates and the screen lights up.
- **To Power Off:** Press and hold the Power Key, then select "Power off" from the options that appear on the screen.
- **To Restart:** Press and hold the Power Key, then select "Restart" from the options.

3.4. Initial Android Setup

Upon first power-on, follow the on-screen prompts to complete the initial Android setup, including language selection, Wi-Fi connection, and Google account login (optional).

4. Operating Instructions

4.1. Screen and Keypad Navigation

The NETUM Q500 features a 4-inch IPS touchscreen for primary interaction and a 23-key physical keypad for efficient data entry. The touchscreen supports multi-touch gestures and can be operated with gloves or wet hands.



Figure 5: Touchscreen and physical keypad features.

4.2. Barcode Scanning

The device is equipped with a Honeywell HS7 Engine for superior 1D and 2D barcode decoding. To scan a barcode:

1. Open the scanning application on the device.

2. Point the scan window (top of the device) towards the barcode.
3. Press one of the dedicated Scan Keys on the side of the device.
4. Ensure the laser beam covers the entire barcode for optimal reading. The device will provide an audible or visual confirmation upon successful scan.



Figure 6: Barcode scanning capabilities.

4.3. NFC Scanning

The NETUM Q500 includes a 13.56MHz NFC reader for easy scanning of NFC-enabled tags or devices.

1. Ensure NFC is enabled in the device settings.
2. Hold the NFC reading area (front top of the device) close to the NFC tag or device.
3. The device will automatically read the NFC data.

Appearance introduction



Figure 7: NFC scanning in various applications.

4.4. Connectivity (Wi-Fi, 4G, Bluetooth)

- **Wi-Fi:** Access Wi-Fi settings from the notification panel or Settings app to connect to available networks. Supports dual-band (2.4/5GHz).
- **4G LTE:** Insert a SIM card to enable cellular data connectivity.
- **Bluetooth:** Pair with Bluetooth devices (e.g., headphones, printers) via Bluetooth settings. Supports Bluetooth 5.0.

5. Maintenance and Care

To ensure the longevity and optimal performance of your NETUM Q500, follow these maintenance guidelines:

5.1. Cleaning

- Use a soft, lint-free cloth slightly dampened with water or a mild screen cleaner to clean the display and device body.
- Avoid using harsh chemicals, abrasive cleaners, or solvents.

- Ensure all ports are dry before charging or connecting accessories.

5.2. Battery Care

- Avoid exposing the device to extreme temperatures (hot or cold), as this can affect battery life.
- For long-term storage, charge the battery to about 50% and store the device in a cool, dry place.
- Use only the original or certified compatible charging accessories.

5.3. Durability and Protection

The NETUM Q500 is designed for rugged environments, featuring an IP67 rating for protection against dust and water ingress, and resistance to drops from up to 1.8 meters (5.9 feet) onto concrete.



Figure 8: Rugged design features for enhanced durability.

5.4. Software Updates

Periodically check for system updates in the device's settings to ensure you have the latest features, security patches, and performance improvements.

6. Troubleshooting

This section addresses common issues you might encounter with your NETUM Q500.

Problem	Possible Cause	Solution
Device does not power on.	Low battery; device frozen.	Charge the device for at least 30 minutes. If still unresponsive, perform a forced restart by holding the Power Key for 10-15 seconds.
Barcode not scanning.	Barcode damaged/unreadable; incorrect distance; scanner application not active.	Ensure the barcode is clean and undamaged. Adjust the distance between the scanner and the barcode. Verify the scanning application is open and active.
Wi-Fi/Bluetooth connectivity issues.	Out of range; incorrect password; interference.	Move closer to the Wi-Fi router or Bluetooth device. Re-enter the password. Restart the device and the network equipment.
Slow performance.	Too many apps running; low storage.	Close unnecessary applications. Clear cache and temporary files. Consider uninstalling unused apps or moving data to external storage.

7. Technical Specifications

Below are the detailed technical specifications for the NETUM Q500 Handheld Barcode Scanner Terminal Mobile Computer.



Figure 9: Overview of key technical features.

Feature	Detail
Operating System	Android 11
Processor	Octa-core 2.0GHz
RAM	4GB
ROM	64GB
Display	4-inch IPS Touchscreen
Barcode Scanner	Built-in Honeywell HS7 Engine, supports 1D/2D barcodes
NFC	13.56MHz NFC Reader
Wi-Fi	Wi-Fi 6, Dual-band (2.4GHz/5GHz)

Feature	Detail
Bluetooth	Bluetooth 5.0
Cellular	4G LTE (with Dual SIM support)
Cameras	5MP Front, 13MP Rear Autofocus
Battery	5000mAh Lithium Polymer
Durability	IP67 rated, 1.8m (5.9ft) drop resistance
Dimensions	0.71 x 2.6 x 6.61 inches (18 x 66 x 168 mm)
Weight	9.3 ounces (264 grams)

8. Warranty and Support

NETUM provides a standard manufacturer's warranty for the Q500 device. For specific warranty terms, technical support, or service inquiries, please refer to the warranty card included with your product or visit the official NETUM website. Ensure you retain your proof of purchase for warranty claims.

