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Nikotek NK120

Nikotek Metro Laser Distance Meter NK120 User Manual

Model: NK120

1. Introduction

Thank you for choosing the Nikotek Metro Laser Distance Meter NK120. This portable digital laser rangefinder is designed for precise distance measurements, offering a range of up to 120 meters with an accuracy of ±2 mm. It features an IP54 rating for dust and splash resistance, two integrated bubble levels for enhanced accuracy, and a clear 4-line LCD display. This manual provides essential information for the safe and effective use of your device.

2. Safety Information

This device uses a Class II laser with an output power of less than 1 mW. Observe the following safety precautions:

- Do not stare directly into the laser beam.
- Avoid directing the laser beam at people or animals.
- Do not disassemble or modify the device. Repairs should only be performed by authorized personnel.
- Keep the device out of reach of children.
- Use the device only for its intended purpose as described in this manual.

3. Product Overview

The Nikotek Metro Laser Distance Meter NK120 is equipped with intuitive controls and a clear display for ease of use.

3.1. Device Components



Figure 1: Front view of the Nikotek Metro Laser Distance Meter, highlighting the function button/data storage, add/subtract/forward/backward button, power ON/measure button, benchmark/unit switch button, and power OFF/clear button. The 4-line LCD display shows measurement readings.

The device features a robust housing and a clear LCD display. Key buttons include:

- **FUNC / Data Storage Button:** Used to select measurement functions and save data.
- **ON / MEAS Button:** Powers on the device and initiates measurements.
- **+/- Button:** For addition/subtraction of measurements and navigating forward/backward in data records.
- **Benchmark / Unit Switch Button:** Changes the measurement reference point (front/rear) and switches measurement units (M/Ft/In/Ft+in).
- **OFF / Clear Button:** Powers off the device and clears current measurements.

3.2. Bubble Levels



Figure 2: The laser distance meter with two integrated bubble levels, one on the top and one on the side, indicating its ability to provide precise horizontal and vertical alignment for accurate measurements.

The device includes two bubble levels to ensure accurate horizontal and vertical alignment during measurements, reducing potential errors.

4. Setup

4.1. Battery Installation

The Nikotek NK120 requires two AAA 1.5V batteries (included). To install:

1. Locate the battery compartment cover on the back of the device.
2. Slide or unclip the cover to open.
3. Insert the two AAA batteries, ensuring correct polarity (+/-).
4. Close the battery compartment cover securely.

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Video 1: This video demonstrates the process of installing batteries into a laser distance meter, showing how to open the battery compartment, insert the batteries with correct polarity, and close the cover.

4.2. Powering On/Off

- **To Power On:** Press the **ON / MEAS** button. The LCD display will light up.
- **To Power Off:** Press and hold the **OFF / Clear** button for a few seconds. The device will also automatically power off after 150 seconds of inactivity to conserve battery life.

5. Operating Instructions

5.1. Changing Measurement Units

Press the **Benchmark / Unit Switch** button repeatedly to cycle through the available measurement units: meters (M), feet (Ft), inches (In), and feet + inches (Ft+in).



Figure 3: A close-up of the device display illustrating the different measurement units available for selection: meters (M), feet (FT), inches (IN), and feet/inches (FT/IN).

5.2. Setting Measurement Benchmark

The device can measure from its front edge or its rear edge. Press and hold the**Benchmark / Unit Switch** button to toggle between the front and rear measurement reference points. An icon on the display will indicate the active benchmark.



Figure 4: Illustration of the two measurement reference points: from the front edge of the device (0.420m example) and from the rear edge (0.528m example), allowing flexibility based on measurement needs.

5.3. Basic Measurement Functions

Press the **FUNC** button to select different measurement modes.

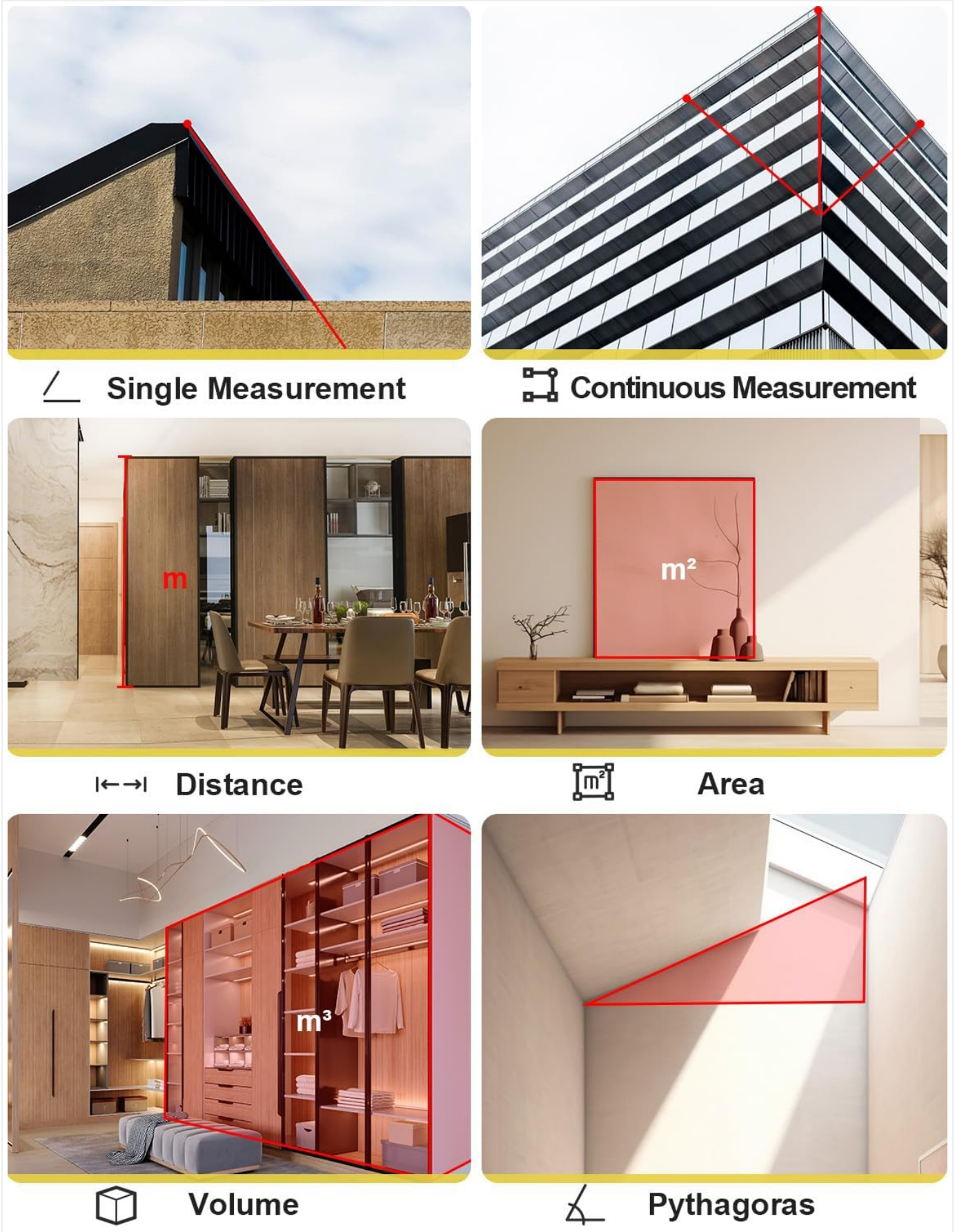


Figure 5: Visual representation of the various measurement functions available on the device, including single distance measurement, continuous measurement, area calculation, volume calculation, and Pythagorean theorem measurement.

- **Single Distance Measurement:** Press **ON / MEAS** once to activate the laser, then press again to take a single measurement.
- **Continuous Measurement (Tracking):** Select this mode using the **FUNC** button. The device will continuously measure and display the distance as you move it.

- **Area Measurement:** Select the area mode. The device will prompt you to measure the length and width. After two measurements, it will automatically calculate and display the area.
- **Volume Measurement:** Select the volume mode. The device will prompt you to measure length, width, and height. After three measurements, it will automatically calculate and display the volume.
- **Pythagorean Measurement (Indirect Measurement):** Select the Pythagorean mode. Follow the on-screen prompts to take the necessary measurements (e.g., hypotenuse and one leg) to indirectly calculate a distance.

5.4. Addition and Subtraction

After taking a measurement, press the **+/-** button to enter addition or subtraction mode. Take another measurement, and the device will add or subtract it from the previous reading. Press **+/-** again to switch between addition and subtraction.



Figure 6: The device display illustrating an addition operation, where two individual measurements (0.840m and 0.834m) are combined to show a total of 1.674m.

5.5. Data Storage and Recall

The device can store up to 99 groups of measurement data. To save a measurement, press the **FUNC / Data Storage** button after taking a measurement. To recall stored data, press and hold the **FUNC / Data Storage** button, then use the **+/-** buttons to navigate through the records.



Figure 7: The laser distance meter showing its capability to store and display up to 99 historical measurement records on its multi-line LCD screen.

6. Maintenance

6.1. Cleaning

Regular cleaning helps maintain the device's performance and longevity.

- Wipe the device with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- Clean the laser lens carefully with a soft cloth, similar to cleaning camera lenses. Avoid touching the lens with fingers.

6.2. Storage

When not in use, store the device in a dry, cool place, away from direct sunlight and extreme temperatures. Remove batteries if the device will not be used for an extended period to prevent leakage.



Figure 8: The device is shown in two scenarios, illustrating its IP54 rating for dust protection (top) and resistance to water splashes (bottom), indicating its suitability for various working environments.

The IP54 rating ensures protection against dust ingress and splashing water from any direction, making it suitable for various working conditions.

7. Troubleshooting

If you encounter issues with your Nikotek Metro Laser Distance Meter, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Device does not power on	Low or dead batteries; incorrect battery installation.	Replace batteries; ensure correct polarity.
Inaccurate measurements	Unstable measurement surface; laser beam obstructed; incorrect benchmark setting; environmental factors (e.g., strong light).	Ensure stable positioning; clear obstructions; verify benchmark; measure in suitable conditions.
Display shows 'Error'	Measurement out of range; laser signal too weak or too strong.	Ensure target is within range (0.05m-120m); measure on a reflective surface if needed; avoid direct sunlight.
Buttons unresponsive	Device frozen; low battery.	Remove and reinsert batteries; replace batteries.

If the problem persists, please contact customer support.

8. Specifications

Feature	Specification
Model Number	NK120
Measurement Range	0.05m - 120m
Measurement Accuracy	±2 mm
Measurement Units	M / Ft / In / Ft+in
Laser Class	Class II, <1 mW
IP Rating	IP54 (Dustproof and Splashproof)
Display	4-line LCD with backlight
Data Storage	99 groups
Auto Power Off	150 seconds of inactivity
Battery Type	2 x AAA 1.5V batteries
Product Material	ABS
Product Weight	180 g
Product Dimensions	15.6 x 9.8 x 5.2 cm (packaging)

9. Warranty and Support

Nikotek products are designed for reliability and performance. This product comes with a standard manufacturer's warranty against defects in materials and workmanship. Please refer to the packaging or contact customer support for specific warranty terms and duration.

Customer Support

If you have any questions, require technical assistance, or need to report an issue with your Nikotek Metro Laser Distance Meter NK120, please do not hesitate to contact our customer support team. Contact information can typically be found on the product packaging or on the official Nikotek website.

Ask a question about this manual

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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.

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